



# Roosevelt Boulevard

**Section 2 – Appendix 4**

**2025 No-Build VISSIM  
DTA Model Summary**

**July 2018**

## **BACKGROUND**

This memo summarizes the assumptions made for the updated 2025 No Build VISSIM models and the simulation results (including travel time, queue length, LOS and delay comparisons with 2015 Existing Conditions). The No Build models were conducted on July 15, 2018 for the AM peak hour (7:30 AM – 8:30 AM) and PM peak hour (4:30 PM – 5:30 PM).

## **ASSUMPTIONS**

The following assumptions were incorporated in both 2025 No Build AM and PM VISSIM models.

### **Signal**

The model assumes the left-turn signal phase as leading for signal controllers.

### **Geometry**

US-1 Improvement Project in Bucks County

- At the Street Road (PA 132) Interchange, four zones (1607952, 1603154, 1605928, and 1605927) were deleted in the 2025 No Build AM and PM VISSIM models and a new zone (12000000) was added to represent the new ramp
- Reconfigured intersections along Rockhill Drive

Added Business Access and Transit (BAT) Lane

- Outermost lane of the NB and SB outer lanes, which can be used by buses and right-turning vehicles only
- Typically, an effective distance of 200 feet from the intersection was used for BAT lane modeling. However, adjustments were made based on distance between intersections, driveways, unsignalized intersections and high turning movement volumes
- Northbound from Bustleton Avenue (north of the intersection) to City/County line
- Southbound from City/County line to Hellerman Street

### **Bus Routes**

Schedule: A bus every 15 mins until 45 mins into simulation and then one every 10 mins until the end of the simulation

Lane usage:

- Boulevard Direct buses can use any lane
- Regular buses can only use the BAT lane

Bus stops: Boulevard Direct will stop only at the following existing bus stops:

- Cottman Avenue, Rhawn Street, Welsh Road, Grant Avenue, Red Lion Road, Neshaminy Interplex, and Neshaminy Mall

## O-D Volume Changes

### 2025 No Build AM Peak

Compared to Existing AM Origin-Destination (O-D) Matrix, O-Ds where volume changed more than +/- 50 vehicles per hour (vph) are shown in **Tables 1 and 2** in order of the total volume change.

#### *Origin Volume Changes*

- As shown in Table 1, the southbound entry volume increased by 19% (539 vehicles) in 2025 compared to 2015. Only 25% (135 vehicles) of these additional southbound vehicles traverse Roosevelt Boulevard south of Woodhaven Road interchange. Approximately 55% (296 vehicles) of the additional vehicles leave the Boulevard at the PA Turnpike and the remaining 20% (108 vehicles) leave the Boulevard at Street Road (PA 132) and Woodhaven Road (PA 63).

**Table 1:** Origin Volume Changes in 2015 Existing AM vs. 2025 No Build AM

| Location                              | 2015 Existing AM Volume (vph) | 2025 No Build AM Volume (vph) | $\Delta (\Delta\%)$ |
|---------------------------------------|-------------------------------|-------------------------------|---------------------|
| US Route 1 SB Entry (at Bristol Rd)   | 2,885                         | 3,425                         | 539 (19%)           |
| Street Rd (PA 132) to NB              | 408                           | 733                           | 325 (80%)           |
| PA Turnpike                           | 2,910                         | 3,068                         | 158 (5%)            |
| Broad St EB                           | 1,734                         | 1,847                         | 113 (7%)            |
| Cottman Ave WB                        | 945                           | 1,056                         | 111 (12%)           |
| Broad St WB                           | 870                           | 976                           | 106 (12%)           |
| Cottman Ave EB                        | 765                           | 858                           | 93 (12%)            |
| Adams Ave WB (at Summerdale Ave)      | 701                           | 792                           | 91 (13%)            |
| Street Rd (PA 132) to SB              | 123                           | 207                           | 84 (68%)            |
| Southampton Rd WB                     | 723                           | 800                           | 77 (11%)            |
| Rockhill Dr EB                        | 528                           | 602                           | 74 (14%)            |
| Roosevelt Expy NB Entry (inner lanes) | 2,707                         | 2,780                         | 73 (3%)             |
| Castor Ave EB                         | 616                           | 683                           | 67 (11%)            |
| Large St SB                           | 437                           | 503                           | 66 (15%)            |
| Bristol Rd WB                         | 569                           | 632                           | 63 (11%)            |
| Frankford Ave SB                      | 464                           | 525                           | 61 (13%)            |
| Bustleton Ave EB                      | 624                           | 684                           | 59 (9%)             |
| Langdon St EB                         | 318                           | 376                           | 59 (18%)            |
| Red Lion Rd WB                        | 575                           | 633                           | 58 (10%)            |
| Rising Sun Ave WB                     | 341                           | 394                           | 53 (16%)            |
| Rockhill Dr WB                        | 408                           | 462                           | 53 (13%)            |
| Whitaker Ave EB                       | 139                           | 62                            | -77 (-55%)          |
| Woodhaven Rd (PA 63) to SB            | 535                           | 463                           | -72 (-13%)          |
| Harbison Ave WB                       | 1,062                         | 999                           | -63 (-6%)           |
| Horizon Blvd NB                       | 267                           | 208                           | -59 (-22%)          |

- In the northbound direction, the volume from Street Road (PA 132) to northbound US Route 1 increased by 80% (325 vehicles) in 2025. Of these, 52% (170 vehicles) leave US Route 1

at the PA Turnpike and the remaining 48% (155 vehicles) travel to the northern end of the corridor (Bristol Road).

#### *Destination Volume Changes*

- As shown in **Table 2**, in the southbound direction, the volume to the PA Turnpike increased by 15% (381 vehicles) in 2025 compared to 2015. This includes 45% (170 vehicles) from Street Road (PA 132) and 55% (291 vehicles) from northern end of the corridor.
- The volume to southern end of Roosevelt Expressway decreased by 10% (451 vehicles) in 2025 due to decreased demands from local streets (e.g., 85 vehicles fewer from Whitaker Avenue, 54 vehicles fewer from Levick Street, and 50 vehicles fewer from 6th Street). However, the volume to southern end to Roosevelt Boulevard and Broad Street (from the Boulevard) increased by 82 and 230 vph respectively which creates a bottleneck at Old York Road that occasionally extends beyond 9<sup>th</sup> Street.
- In the northbound direction, the volume to the northern end of the corridor increased by 11% (354 vehicles). These vehicles are from the PA Turnpike (56%, 200 vehicles) and Street Road (44%, 155 vehicles).

**Table 2:** Destination Volume Changes in 2015 Existing AM vs. 2025 No Build AM

| Location                            | 2015 Existing AM Volume (vph) | 2025 No Build AM Volume (vph) | Δ (Δ%)      |
|-------------------------------------|-------------------------------|-------------------------------|-------------|
| PA Turnpike                         | 2,486                         | 2,867                         | 381 (15%)   |
| US Route 1 NB End (at Bristol Road) | 3,292                         | 3,646                         | 354 (11%)   |
| Broad St EB                         | 1,655                         | 1,994                         | 339 (20%)   |
| SB to Street Rd (PA 132)            | 267                           | 496                           | 229 (86%)   |
| SB to Woodhaven Rd (PA 63)          | 636                           | 847                           | 211 (33%)   |
| Neshaminy Mall                      | 171                           | 362                           | 191 (112%)  |
| Cottman Ave EB                      | 1,048                         | 1,154                         | 106 (10%)   |
| Rockhill Dr EB                      | 562                           | 665                           | 103 (18%)   |
| Roosevelt Blvd SB End (outer lanes) | 1,019                         | 1,101                         | 82 (8%)     |
| Rising Sun Ave WB                   | 378                           | 457                           | 79 (21%)    |
| Southampton Rd WB                   | 817                           | 893                           | 77 (9%)     |
| Bustleton Ave EB                    | 424                           | 497                           | 73 (17%)    |
| Oxford Ave WB                       | 511                           | 580                           | 68 (13%)    |
| Cottman Ave WB                      | 813                           | 880                           | 66 (8%)     |
| Mascher St WB                       | 483                           | 546                           | 63 (13%)    |
| Adams Ave WB (at Summerdale Ave)    | 987                           | 1,045                         | 58 (6%)     |
| F St WB                             | 444                           | 501                           | 57 (13%)    |
| NB to Street Rd (PA 132)            | 141                           | 195                           | 54 (38%)    |
| Broad St WB                         | 687                           | 737                           | 50 (7%)     |
| Roosevelt Expy SB End (inner lanes) | 4,349                         | 3,898                         | -451 (-10%) |
| Horizon Blvd NB                     | 731                           | 659                           | -73 (-10%)  |
| Adams Ave EB (at Whitaker Ave)      | 738                           | 665                           | -72 (-10%)  |

### 2025 No Build PM Peak

Compared to Existing PM O-D Matrix, O-Ds where volume changed more than +/- 50 vehicles per hour (vph) are shown in **Tables 3 and 4**.

#### *Origin Volume Changes*

- As shown in **Table 3**, the southbound Roosevelt Boulevard entry volume increased by 17% (524 vehicles) in 2025 compared to 2015. Approximately 67% (351 vehicles) of these additional southbound vehicles leave the Boulevard at the PA Turnpike and the remaining 33% (173 vehicles) leave the Boulevard at Street Road (PA 132). As a result, none of these additional southbound vehicles traverse Roosevelt Boulevard south of Street Road interchange.

**Table 3:** Origin Volume Changes in 2015 Existing PM vs. 2025 No Build PM

| Location                              | 2015 Existing PM Volume (vph) | 2025 No Build PM Volume (vph) | $\Delta (\Delta\%)$ |
|---------------------------------------|-------------------------------|-------------------------------|---------------------|
| US Route 1 SB Entry (at Bristol Rd)   | 3,056                         | 3,580                         | 524 (17%)           |
| Southampton Rd WB                     | 833                           | 981                           | 148 (18%)           |
| Neshaminy Mall                        | 237                           | 362                           | 125 (53%)           |
| Cottman Ave EB                        | 1,038                         | 1,163                         | 124 (12%)           |
| Broad St WB                           | 1,648                         | 1,751                         | 104 (6%)            |
| Street Rd (PA 132) to NB              | 672                           | 776                           | 104 (15%)           |
| Street Rd (PA 132) to SB              | 150                           | 246                           | 96 (64%)            |
| Cottman Ave WB                        | 857                           | 939                           | 82 (10%)            |
| Horizon Blvd NB                       | 499                           | 577                           | 78 (16%)            |
| Langdon St EB                         | 438                           | 508                           | 71 (16%)            |
| Large St EB                           | 272                           | 328                           | 56 (21%)            |
| Woodhaven Rd (PA 63) to SB            | 667                           | 533                           | -134 (-20%)         |
| Roosevelt Blvd NB Entry (outer lanes) | 769                           | 660                           | -109 (-14%)         |
| Cheltenham Ave EB                     | 393                           | 323                           | -70 (-18%)          |

#### *Destination Volume Changes*

- As shown in **Table 4**, in the northbound direction, the volume traveling to northern end of the corridor increased by 14% (525 vehicles) in 2025 compared to 2015. The majority of these vehicles come from Street Road (28%, 145 vehicles), Woodhaven Road (25%, 131 vehicles), and Southampton Road (20%, 106 vehicles).
- In the southbound direction, the volume destined to the PA Turnpike increased by 13% (340 vehicles) in 2025. These vehicles are from the southbound entry of the corridor.

**Table 4:** Destination Volume Changes in 2015 Existing PM vs. 2025 No Build PM

| Location                            | 2015 Existing PM Volume (vph) | 2025 No Build PM Volume (vph) | $\Delta$ ( $\Delta\%$ ) |
|-------------------------------------|-------------------------------|-------------------------------|-------------------------|
| US Route 1 NB End (at Bristol Road) | 3,728                         | 4,283                         | 525 (14%)               |
| PA Turnpike                         | 2,713                         | 3,053                         | 340 (13%)               |
| Bustleton Ave EB                    | 480                           | 525                           | 122 (19%)               |
| Bristol Rd                          | 623                           | 711                           | 88 (14%)                |
| Rockhill Dr EB                      | 519                           | 603                           | 84 (16%)                |
| SB to Woodhaven Rd (PA 63)          | 1,102                         | 979                           | -122 (-11%)             |
| Horizon Blvd NB                     | 562                           | 462                           | -100 (-18%)             |
| Byberry Rd EB                       | 337                           | 273                           | -64 (-19%)              |
| Lexington Ave WB                    | 109                           | 53                            | -55 (-51%)              |

### VISSIM Model Parameters

The No Build VISSIM model parameters are presented in **Table 5**.

**Table 5:** VISSIM Simulation Parameters

| Parameter                     | Assumption  |
|-------------------------------|---|
| VISSIM Version                | Version 9.00 - 11   |
| Total Simulation Time         | Approximately 2 hours 15 minutes (8200 seconds)   |
| Seeding Time                  | 1 hour 15 mins (4500 seconds)   |
| Recorded Simulation Time      | 1 hour (3600 seconds)   |
| Entry Volumes (Inputs)        | DVRPC input from VISUM in 1-hour increments   |
| Heavy Vehicle Percentages     | DVRPC input from VISUM  |
| Arrival Distribution          | Used "Exact Volume"   |
| Link Length                   | No limitation on link length, links should be continuous through areas with consistent lane configuration |
| Link Speed                    | +/- 14 mph from the posted speed limit per field observations   |
| Car Following Model           | Wiedemann 99 and 74 car following models for freeway and arterials respectively                           |
| Performance Measure Intervals | One-hour increments   |
| Simulation Resolution         | 5-time steps/sec  |
| Initial Random Seed           | 44 (same as Existing Conditions)  |
| Number of Simulation Runs     | 10 as established in Existing Conditions models   |
| Origin-Destination            | DVRPC input from VISUM  |
| Vehicle Types                 | Car, Bus, and Heavy Gross Vehicles (trucks)   |
| Driver Behavior               | No changes from Existing Conditions model   |
| Lane Change Distance          | No changes from Existing Conditions model   |

## Signal Controllers

The following changes were made to signal timings under No Build Conditions.

- Updated offsets and offset reference points (only applicable in VISSIM to match Synchro) for all signal controllers
- Developed new timings for intersections near the Neshaminy Mall
- Kept left-turn signal phase as leading for all signal controllers. Changed left-turn signal phase from lagging to leading at the intersection of Roosevelt Boulevard and Summerdale Avenue in the 2025 No Build AM VISSIM model (to fix the error in Synchro)

## RESULTS

### 2025 No Build AM Peak

The 2025 No Build VISSIM Model results including travel time, level of service, and delay are presented below. Pedestrian operations do not change in No Build Conditions as no improvements are made to crosswalk or pedestrian signal timing.

#### Vehicles Served along Roosevelt Boulevard

As shown in **Table 6**, the numbers of vehicles unserved is similar between Existing Conditions and 2025 No Build with the exception of southbound volume to Roosevelt Boulevard (outer lanes). The demand unserved increased by 3% (from 45vph to 80 vph) compared to Existing Conditions due to the failure of southbound approach at Bristol Street and Broad Street. Queues from this bottleneck occasionally impact the capacity of 9th Street.

**Table 6:** Vehicles Served along Roosevelt Boulevard

| Location                               | 2015 Existing |                     | % demand unserved | 2025 No Build |                     | % demand unserved |
|--|---------------|---------------------|-------------------|---------------|---------------------|-------------------|
|  | DVRPC Demand  | Processed by VISSIM |                   | DVRPC Demand  | Processed by VISSIM |                   |
| Entry Volume                           |               |                     |                   |               |                     |                   |
| Roosevelt Expwy NB Entry (inner lanes) | 374           | 385                 | 0%                | 330           | 344                 | 0%                |
| Roosevelt Blvd NB Entry (outer lanes)  | 2707          | 2705                | 0%                | 2780          | 2778                | 0%                |
| Roosevelt Blvd SB Entry                | 2885          | 2886                | 0%                | 3425          | 3424                | 0%                |
| Exit Volume                            |               |                     |                   |               |                     |                   |
| Roosevelt Blvd NB Exit                 | 3292          | 3227                | 2%                | 3646          | 3593                | 1%                |
| Roosevelt Expwy SB Exit (inner lanes)  | 4349          | 4031                | 7%                | 3898          | 3635                | 7%                |
| Roosevelt Blvd SB Exit (outer lanes)   | 1019          | 972                 | 5%                | 1101          | 1017                | 8%                |

#### Travel Time - Passenger Car and Truck

Travel times for passenger cars and trucks were calculated along Roosevelt Boulevard/US Route 1 between Broad Street and Bristol Road (14.4 miles). In the peak (or southbound) direction, travel

time for passenger car and truck traffic on the outer lanes decreased by 4% from 42.6 minutes in 2015 to 41.1 minutes in 2025 (1.5 minutes reduction). Travel time on the inner lanes decreased by 7% from 39.3 minutes in 2015 to 36.2 minutes in 2025 (3.1 minutes reduction).

Using the Dynamic Traffic Assignment (DTA) micro-simulation models, the proposed BAT lane did not show a negative impact on the southbound direction due to two factors:

- DVRPC projected slightly lower volume (of 150 vph) on southbound Roosevelt Boulevard, inner and outer combined travelling towards the southern end of the corridor in 2025 No Build compared to 2015.
- In the section with the BAT lanes, the vehicular volume projected on the outer lanes (about 600-1220 vehicles/hour) is lower than the capacity of two through lanes (during the southbound through phase) as shown in **Table 7**. In the field, the crossovers impact the capacity of the through lanes which is not accurately replicated by the DTA model as vehicles refrain from using the crossovers.

**Table 7:** Southbound Outer Lanes Volume and Capacity Comparison in the BAT Lane Segment

| Location                     | Southbound Volume Processed by VISSIM (vehicles per cycle) | Southbound Capacity of the Signals (vehicles per cycle) |
|------------------------------|--|---|
| Roosevelt Blvd & Welsh Rd    | 20   | 39  |
| Roosevelt Blvd & Woodward St | 23   | 46  |
| Roosevelt Blvd & Strahle St  | 27   | 58  |
| Roosevelt Blvd & Holme Ave   | 33   | 55  |
| Roosevelt Blvd & Rhawn St    | 30   | 45  |
| Roosevelt Blvd & Ryan Ave    | 34   | 43  |
| Roosevelt Blvd & Cottman Ave | 36   | 44  |

NOTE: Calculations assumed a processing time of 2.2 seconds/vehicle and a total start-up lost time of 4 seconds.

To estimate the impacts of crossovers with BAT Lanes more accurately, a static modeling exercise is recommended.

In the off-peak (or northbound) direction, travel time for passenger car and truck traffic increased by approximately 1 minute on the outer lanes between 2015 and 2025. This can be attributed to the increased vehicular demand (by approximately 350 vph) to the northern end of the corridor. Travel time on the inner lanes stayed relatively the same compared to existing conditions.

#### Travel Time - Buses

As the general limits of BAT lanes (in No Build Conditions) were between Bustleton Avenue and Old Lincoln Highway, the bus travel time comparisons were limited to this segment. Regular buses had longer travel times in 2025 No Build conditions as they were restricted to a single BAT lane in each direction compared to having no restriction on lane usage in Existing Conditions. In the southbound direction, travel time for regular buses (including Routes 1, 14, and 50) increased by 8% from 42.5 minutes per bus trip in 2015 to 45.9 minutes in 2025 (3.4 minutes increase). In the northbound direction, travel time for regular buses increased by 20% from 28.8 minutes per bus trip in 2015 to 34.5 minutes in 2025 (5.7 minutes increase).

The average travel time of Boulevard Direct was 33.8 minutes and 25.3 minutes per bus trip in the southbound and northbound directions respectively in 2025.

### Queue Length Changes

**Table 8** shows all movements where the average queue in 2025 No Build Conditions increased by more than 20% and 50 feet (2 car-lengths) as compared to 2015 Existing Conditions or exceeded the storage length. The NB/SB queues are on the Boulevard (except for the queue on W. Bristol Street). The EB/WB queues are on the side streets.

**Table 8:** Queue Length Changes of 2015 Existing AM and 2025 No Build AM

| Location  | 2015 Existing Avg. Queue (ft) | 2025 No Build Avg. Queue (ft) | $\Delta (\Delta\%)$ |
|---|-------------------------------|-------------------------------|---------------------|
| Roosevelt Blvd & Broad St - SB                  | 70                            | 140                           | 69 (98%)            |
| Roosevelt Blvd & Old York Rd - EBL              | 96                            | 139                           | 43 (45%)            |
| Roosevelt Blvd & Old York Rd - SB               | 31                            | 524                           | 493 (1593%)         |
| Roosevelt Blvd & Rising Sun Ave - SBL           | 214                           | 409                           | 195 (91%)           |
| Roosevelt Blvd & Rising Sun Ave - WB            | 93                            | 151                           | 58 (63%)            |
| Roosevelt Blvd & C St - EB                      | 76                            | 172                           | 96 (125%)           |
| Roosevelt Blvd & Whitaker/ Adams Ave - SBO      | 121                           | 178                           | 57 (47%)            |
| Roosevelt Blvd & Langdon St - EB                | 71                            | 138                           | 68 (95%)            |
| Roosevelt Blvd & Summerdale Ave - NBL           | 192                           | 352                           | 160 (83%)           |
| Roosevelt Blvd SB & Oxford Circle - EB          | 241                           | 510                           | 269 (112%)          |
| Roosevelt Blvd & Oxford Circle/Castor Ave - EBR | 17                            | 262                           | 245 (1467%)         |
| Roosevelt Blvd SB & Oxford Circle – SBO         | 48                            | 109                           | 60 (125%)           |
| Roosevelt Blvd & Large St - EB                  | 154                           | 300                           | 146 (94%)           |
| Roosevelt Blvd & Devereaux St - WB              | 81                            | 137                           | 56 (69%)            |
| Roosevelt Blvd & Bustleton Ave - NBL            | 34                            | 118                           | 84 (246%)           |
| Roosevelt Blvd & Bustleton Ave - NBO            | 52                            | 105                           | 54 (103%)           |
| Roosevelt Blvd & Ryan Ave - NBL                 | 76                            | 212                           | 136 (178%)          |
| Roosevelt Blvd SB & Welsh Rd – NBO              | 100                           | 185                           | 85 (85%)            |
| Roosevelt Blvd SB & Goodnow St – NBO            | 35                            | 109                           | 74 (210%)           |
| Roosevelt Blvd & Comly Rd - SBL                 | 431                           | 534                           | 103 (24%)           |
| Roosevelt Blvd & Crown Way - NBO                | 85                            | 232                           | 147 (174%)          |
| Roosevelt Blvd & Southampton Rd - WB            | 122                           | 348                           | 225 (184%)          |
| Roosevelt Blvd & Southampton Rd - SBL           | 434                           | 1459                          | 1025 (236%)         |
| Roosevelt Blvd & Southampton Rd – SBO           | 30                            | 150                           | 130 (433%)          |
| Roosevelt Blvd & Northgate Rd – NB              | 1                             | 97                            | 96 (7270%)          |
| Roosevelt Blvd & Lincoln Hwy – SB               | 67                            | 134                           | 67 (100%)           |

Average queue length exceeded the storage length in 2025

Average queue length increased in 2025 due to BAT lanes

### LOS and Delay Changes - Passenger Car and Truck

In 2015 Existing Conditions, all intersections in the study area operated at LOS D or better except the intersection at Summerdale/Adams Avenue. In the 2025 No Build AM, while Summerdale/Adams Ave continued to operate at LOS E, the intersections at Southampton Road and Old York Road degrade to LOS F and E. The degradation at both of these intersections is caused by an increase in vehicular demand. The approaches that degraded at both of these locations are shown in **Table 9**. This table shows all the approaches/movements where:

- LOS degraded from C (or better) to D or worse
- Approaches/movements where the delay increased by more than 40% in 2025 No Build Conditions and that operated at LOS D or worse in Existing Conditions

**Table 9:** Delay and LOS Comparison of 2015 Existing AM and 2025 No Build AM

| Intersection                                | Approach or Movement | 2015 Existing AM (delay / LOS) | 2025 No Build AM (delay / LOS) |
|---|----------------------|--------------------------------|--------------------------------|
| Roosevelt Blvd & Old York Rd                | EB                   | 32.4 / C                       | 43.2 / D                       |
|   | SB                   | 15.5 / B                       | 107.0 / F                      |
| Roosevelt Blvd & Rising Sun Ave             | NBL                  | 43.3 / D                       | 67.8 / E                       |
|   | SBL                  | 78.1 / E                       | 117.8 / F                      |
| Roosevelt Blvd & C St                       | EB                   | 46.8 / D                       | 71.6 / E                       |
|   | WBT                  | 34.7 / C                       | 38.2 / D                       |
| Roosevelt Blvd & Whitaker/ Adams Ave        | SBOR                 | 31.3 / C                       | 35.4 / D                       |
| Roosevelt Blvd & Tower Blvd                 | NBL                  | 31.0 / C                       | 48.2 / D                       |
| Roosevelt Blvd & Langdon St                 | EB                   | 27.9 / C                       | 45.9 / D                       |
|   | NBL                  | 38.6 / C                       | 79.0 / E                       |
| Roosevelt Blvd & Summerdale Ave             | NBL                  | 184.8 / F                      | 302.6 / F                      |
|   | NBT (Outer)          | 32.3 / C                       | 38.2 / D                       |
|   | SBL                  | 50.8 / D                       | 88.5 / F                       |
|   | SBT (Outer)          | 48.9 / D                       | 65.9 / E                       |
| Roosevelt Blvd & Pratt St                   | EB                   | 24.8 / C                       | 40.3 / D                       |
|   | WBT                  | 25.8 / C                       | 37.7 / D                       |
| Roosevelt Blvd & Bridge St                  | EB                   | 27.0 / C                       | 46.8 / D                       |
| Roosevelt Blvd SB & Oxford Cir              | EB (Circle)          | 53.0 / E                       | 94.5 / F                       |
| Roosevelt Blvd SB & Oxford Cir & Castor Ave | EBR                  | 12.2 / B                       | 70.2 / E                       |
|   | SBR                  | 22.2 / C                       | 38.8 / D                       |
| Roosevelt Blvd & Large St                   | EB                   | 65.1 / E                       | 99.7 / F                       |
| Roosevelt Blvd & Bustleton Ave              | NBL                  | 30.4 / C                       | 67.8 / E                       |
|   | NB (Outer)           | 20.1 / C                       | 42.8 / D                       |
| Roosevelt Blvd & Harbison Ave               | SBL                  | 72.1 / E                       | 82.6 / F                       |
| Roosevelt Blvd & Ryan Ave                   | EBL                  | 25.5 / C                       | 41.1 / D                       |
|   | EBR (to Outer)       | 32.4 / C                       | 36.5 / D                       |
|   | NBL                  | 96.1 / F                       | 288.3 / F                      |
| Roosevelt Blvd & Holme Ave                  | EBT                  | 29.0 / C                       | 42.2 / D                       |
|   | WBL                  | 15.5 / B                       | 36.2 / D                       |
| Roosevelt Blvd & Strahle St                 | EBR (to Outer)       | 8.4 / A                        | 43.5 / D                       |
|   | NB U-turn (to Outer) | 0.0 / A                        | 72.3 / E                       |
| Roosevelt Blvd & Woodward St                | NBR                  | 30.2 / C                       | 52.5 / D                       |
| Roosevelt Blvd & Welsh Rd                   | NBT (Inner)          | 45.2 / D                       | 64.1 / E                       |
|   | NBT (Outer)          | 41.4 / D                       | 66.2 / E                       |
| Roosevelt Blvd & Goodnow St                 | WBL (to Outer)       | 15.9 / B                       | 40.3 / D                       |
|   | NBT (Inner)          | 16.2 / B                       | 35.4 / D                       |
|   | NBT (Outer)          | 14.2 / B                       | 35.6 / D                       |

Delay increased in 2025 No Build due to BAT lanes

**Table 9:** Delay and LOS Comparison of 2015 Existing AM and 2025 No Build AM (cont'd)

| Intersection                     | Approach or Movement | 2015 Existing AM (delay / LOS) | 2025 No Build AM (delay / LOS) |
|----------------------------------|----------------------|--------------------------------|--------------------------------|
| Roosevelt Blvd & Grant Ave       | SBT (Inner)          | 41.7 / D                       | 64.7 / E                       |
|                                  | SB (Outer)           | 41.6 / D                       | 58.6 / E                       |
| Roosevelt Blvd & Fulmer St       | SBL                  | 30.8 / C                       | 39.4 / D                       |
| Roosevelt Blvd & Conwell Ave     | NB U-turn (to Outer) | 27.1 / C                       | 51.5 / D                       |
| Roosevelt Blvd & Red Lion Rd     | EBL                  | 12.6 / B                       | 39.4 / D                       |
| Roosevelt Blvd & Haldeman Ave    | WBR (to Inner)       | 25.6 / C                       | 41.1 / D                       |
| Roosevelt Blvd & Plaza Dr        | SBT (Inner)          | 18.1 / B                       | 38.1 / D                       |
|                                  | SBR (Outer)          | 29.9 / C                       | 35.8 / D                       |
| Roosevelt Blvd & Hornig Rd       | NBT (Outer)          | 26.1 / C                       | 50.1 / D                       |
|                                  | SB U-turn (to Outer) | 64.8 / E                       | 97.2 / F                       |
| Roosevelt Blvd & Southampton Rd  | WB                   | 55.4 / E                       | 119.7 / F                      |
|                                  | NB U-turn (to Inner) | 59.6 / D                       | 83.8 / F                       |
|                                  | SB (Inner)           | 82.6 / F                       | 248.1 / F                      |
|                                  | SB (Outer)           | 15.1 / B                       | 45.6 / D                       |
| Roosevelt Blvd & Old Lincoln Hwy | NBL                  | 40.1 / D                       | 79.4 / E                       |

Delay increased in 2025 No Build due to BAT lanes

## 2025 No Build PM Peak

### Vehicles Served along Roosevelt Boulevard

**Table 10** shows the numbers of vehicles unserved in Existing Conditions and 2025 No Build along Roosevelt Boulevard. In the peak (northbound) direction, an additional 550 vph were processed at the end of the northbound Roosevelt Boulevard. However, at end of southbound Roosevelt Express lanes, demand unserved increased by 2% (about 50 vph).

**Table 10:** Vehicles Served along Roosevelt Boulevard

| Location                               | 2015 Existing |                     | % demand unserved | 2025 No Build |                     | % demand unserved |
|--|---------------|---------------------|-------------------|---------------|---------------------|-------------------|
|  | DVRPC Demand  | Processed by VISSIM |                   | DVRPC Demand  | Processed by VISSIM |                   |
| Entry Volume                           |               |                     |                   |               |                     |                   |
| Roosevelt Expwy NB Entry (inner lanes) | 769           | 779                 | 0%                | 660           | 674                 | 0%                |
| Roosevelt Blvd NB Entry (outer lanes)  | 3306          | 3304                | 0%                | 3334          | 3333                | 0%                |
| Roosevelt Blvd SB Entry                | 3056          | 3057                | 0%                | 3580          | 3580                | 0%                |
| Exit Volume                            |               |                     |                   |               |                     |                   |
| Roosevelt Blvd NB Exit                 | 3728          | 3654                | 2%                | 4253          | 4220                | 1%                |
| Roosevelt Expwy SB Exit (inner lanes)  | 2943          | 2938                | 0%                | 2926          | 2876                | 2%                |
| Roosevelt Blvd SB Exit (outer lanes)   | 548           | 560                 | 0%                | 636           | 645                 | 0%                |

### Travel Time - Passenger Car and Truck

Travel time for passenger cars and trucks were calculated along Roosevelt Boulevard/US Route 1 between Broad Street and Bristol Road (14.4 miles). In the peak (or northbound) direction, travel time for passenger car and truck traffic on the outer lanes increased by 3% from 38.7 minutes in 2015 to 39.9 minutes in 2025 (1.2 minutes increase) possibly due to BAT lanes. Travel time on the inner lanes decreased by 3% from 37.4 minutes in 2015 to 36.1 minutes in 2025 (1.3 minutes reduction). The travel time reduced as fewer vehicles travel on the northbound inner lanes of Roosevelt Boulevard compared to 2015 Conditions due to decreased vehicular demand entering northbound Roosevelt Boulevard from the southern end of Roosevelt Boulevard, and from Devereaux Avenue and Bustleton Avenue.

In the off-peak (or southbound) direction, travel time increased on the outer lanes due to BAT lanes and additional 100 vph demand in 2025 No Build. Travel time decreased on the inner lanes by less than a minute between 2015 and 2025.

### Travel Time - Buses

As the general limits of BAT lanes for No Build Conditions were between Bustleton Avenue and Old Lincoln Highway, the travel time comparisons were limited to this segment. Regular buses were restricted to a single BAT lane in each direction compared to having no restriction on lane usage in Existing Conditions. In the southbound direction, the travel time for regular buses increased by 11% from 39.5 minutes per bus trip in 2015 to 44.0 minutes in 2025 (4.5 minutes increase). This is due to the combination of increased vehicular demand and restriction on regular buses on lane usage when compared to Existing Conditions. In the northbound direction, travel time for regular buses (including Routes 1, 14, and 50) decreased by 5% from 28.9 minutes per bus trip in 2015 to 27.6 minutes in 2025 (1.3 minutes reduction).

The average travel time of Boulevard Direct was 33.3 minutes and 22.5 minutes per bus trip in the southbound and northbound directions respectively in 2025.

### Queue Length Changes

**Table 11** shows all movements where the average queue in 2025 No Build Conditions increased by more than 20% and 50 feet (2 car-lengths) as compared to 2015 Existing Conditions or exceeded the storage length. The NB/SB queues are on the Boulevard and the EB/WB queues are on the side streets.

**Table 11:** Queue Length Changes of 2015 Existing PM and 2025 No Build PM

| Location                                    | 2015 Existing Avg. Queue (ft) | 2025 No Build Avg. Queue (ft) | Δ (Δ%)     |
|---|-------------------------------|-------------------------------|------------|
| Roosevelt Blvd & 9th St - NBR               | 4                             | 87                            | 83 (1869%) |
| Roosevelt Blvd & 4th St - WB                | 57                            | 93                            | 36 (63%)   |
| Roosevelt Blvd & 4th St - NBL               | 86                            | 734                           | 647 (752%) |
| Roosevelt Blvd & Mascher St – NBIT          | 33                            | 98                            | 65 (199%)  |
| Roosevelt Blvd & Front St - NBIT            | 33                            | 132                           | 99 (295%)  |
| Roosevelt Blvd & Front St - SBIT            | 16                            | 72                            | 57 (358%)  |
| Roosevelt Blvd & Front St – SBOT            | 11                            | 62                            | 51 (463%)  |
| Roosevelt Blvd & Rising Sun Ave – NBL       | 65                            | 127                           | 62 (97%)   |
| Roosevelt Blvd & F St - NBL                 | 260                           | 436                           | 176 (68%)  |
| Roosevelt Blvd & Whitaker Ave (south) - WBR | 86                            | 351                           | 266 (310%) |

Average queue length exceeded the storage length in 2025

Average queue length increased in 2025 due to BAT lanes

**Table 11:** Queue Length Changes of 2015 Existing PM and 2025 No Build PM (cont'd)

| Location                                     | 2015 Existing Avg. Queue (ft) | 2025 No Build Avg. Queue (ft) | Δ (Δ%)     |
|--|-------------------------------|-------------------------------|------------|
| Roosevelt Blvd & Whitaker Ave (south) - NBOT | 61                            | 154                           | 97 (151%)  |
| Roosevelt Blvd & Whitaker Ave (north) - NBIT | 108                           | 170                           | 62 (58%)   |
| Roosevelt Blvd & Whitaker Ave (north) - SBIT | 94                            | 165                           | 71 (75%)   |
| Roosevelt Blvd & Langdon St - EBR            | 228                           | 424                           | 196 (86%)  |
| Roosevelt Blvd & Summerdale Ave – NBL        | 92                            | 484                           | 392 (426%) |
| Roosevelt Blvd & Bridge St - NBL             | 77                            | 202                           | 125 (163%) |
| Roosevelt Blvd SB & Oxford Circle - SBR      | 183                           | 224                           | 41 (22%)   |
| Roosevelt Blvd & Bustleton Ave - WBL         | 53                            | 70                            | 17 (31%)   |
| Roosevelt Blvd & Bustleton Ave - NBL         | 99                            | 505                           | 406 (411%) |
| Roosevelt Blvd & Harbison Ave - NBOT         | 81                            | 151                           | 70 (87%)   |
| Roosevelt Blvd & Ryan Ave - SBL              | 45                            | 200                           | 155 (342%) |
| Roosevelt Blvd & Rhawn St - SBL              | 277                           | 439                           | 162 (59%)  |
| Roosevelt Blvd & Nabisco Dr - NBOT           | 38                            | 103                           | 65 (171%)  |
| Roosevelt Blvd & Comly Rd - SBL              | 278                           | 782                           | 504 (181%) |
| Roosevelt Blvd & Byberry Rd - SBIT           | 21                            | 196                           | 75 (358%)  |
| Roosevelt Blvd & Crown Way – NBL/T           | 17                            | 113                           | 96 (567%)  |
| Roosevelt Blvd & Crown Way – SBOT            | 26                            | 78                            | 51 (195%)  |
| Roosevelt Blvd & Southampton Rd - SBL        | 270                           | 761                           | 491 (182%) |
| Roosevelt Blvd & Southampton Rd - SBOT       | 117                           | 224                           | 107 (92%)  |
| Roosevelt Blvd & Old Lincoln Hwy - EBL       | 271                           | 1030                          | 759 (279%) |
| Roosevelt Blvd & Old Lincoln Hwy - SBL       | 0                             | 169                           | 169 (N/A)  |

Average queue length exceeded the storage length in 2025

Average queue length increased in 2025 due to BAT lanes

#### LOS and Delay Changes - Passenger Car and Truck

In 2015 Existing Conditions, all intersections in the study area operated at LOS D or better. In No Build AM, the intersection at Southampton Road degraded to LOS E. The degradation is caused by an increase in vehicular demand on southbound left-turn movement. **Table 12** shows all the approaches/movements where:

- LOS degraded from C (or better) to D or worse
- Approaches/movements where the delay increased by more than 40% in 2025 No Build Conditions and that operated at LOS D or worse in Existing Conditions

**Table 12:** Delay and LOS Comparison of 2015 Existing PM and 2025 No Build PM

| <b>Intersection</b>          | <b>Approach or Movement</b> | <b>2015 Existing PM<br/>(delay / LOS)</b> | <b>2025 No Build PM<br/>(delay / LOS)</b> |
|------------------------------|-----------------------------|---|---|
| Roosevelt Blvd & Old York Rd | WBL                         | 31.5 / C                                  | 37.7 / D                                  |
| Roosevelt Blvd & 9th St      | EB                          | 33.1 / C                                  | 36.7 / D                                  |
| Roosevelt Blvd & 7th St      | EBR (to Inner)              | 33.2 / C                                  | 38.0 / D                                  |
| Roosevelt Blvd & 5th St      | EB                          | 33.3 / C                                  | 42.0 / D                                  |
|                              | WB                          | 34.8 / C                                  | 40.8 / D                                  |
| Roosevelt Blvd & 4th St      | EBT                         | 33.6 / C                                  | 35.4 / D                                  |
|                              | WB                          | 29.3 / C                                  | 41.6 / D                                  |
|                              | NBL                         | 50.4 / D                                  | 327.4 / F                                 |

Delay increased in 2025 No Build due to BAT lanes

**Table 12:** Delay and LOS Comparison of 2015 Existing PM and 2025 No Build PM (cont'd)

| Intersection                                   | Approach or Movement | 2015 Existing PM<br>(delay / LOS) | 2025 No Build PM<br>(delay / LOS) |
|--|----------------------|-----------------------------------|-----------------------------------|
| Roosevelt Blvd & C St                          | EB                   | 31.8 / C                          | 37.7 / D                          |
|  | WBR                  | 49.1 / D                          | 72.3 / E                          |
| Roosevelt Blvd & F St                          | EBT/R                | 37.7 / D                          | 60.3 / E                          |
|  | NBL                  | 153.2 / F                         | 264.5 / F                         |
| Roosevelt Blvd & Whitaker Ave (South)          | WB                   | 48.0 / D                          | 144.0 / F                         |
| Roosevelt Blvd & Tower Blvd                    | NBL                  | 33.7 / C                          | 77.4 / E                          |
| Roosevelt Blvd & Langdon St                    | EB                   | 60.5 / D                          | 114.7 / F                         |
|  | NB (Inner)           | 29.5 / C                          | 78.4 / E                          |
|  | SB U-turn (to Inner) | 64.6 / E                          | 85.0 / F                          |
| Roosevelt Blvd & Summerdale Ave                | NBL                  | 67.5 / E                          | 309.2 / F                         |
|  | SBL                  | 47.0 / D                          | 95.7 / F                          |
| Roosevelt Blvd & Bridge St                     | EBT                  | 33.0 / C                          | 36.5 / D                          |
|  | NBL                  | 40.0 / D                          | 132.0 / F                         |
| Roosevelt Blvd NB & Cheltenham Ave             | WBR                  | 322.9 / F                         | 558.7 / F                         |
|  | NBT (circle)         | 49.5 / D                          | 62.4 / E                          |
| Roosevelt Blvd SB & Oxford Circle              | SB                   | 31.3 / C                          | 36.5 / D                          |
| Roosevelt Blvd SB & Oxford Circle & Castor Ave | SB (Outer)           | 15.4 / B                          | 38.7 / D                          |
| Roosevelt Blvd & Large St                      | EBT                  | 34.4 / C                          | 38.1 / D                          |
| Roosevelt Blvd & Devereaux St                  | WB                   | 32.4 / C                          | 39.2 / D                          |
| Roosevelt Blvd & Bustleton Ave                 | NBL                  | 69.5 / E                          | 221.7 / F                         |
| Roosevelt Blvd & Levick St                     | WBL (to Outer)       | 33.2 / C                          | 37.5 / D                          |
| Roosevelt Blvd & Harbison Ave                  | NBL                  | 34.7 / C                          | 40.7 / D                          |
| Roosevelt Blvd & Tyson Ave                     | EB                   | 34.0 / C                          | 46.7 / D                          |
| Roosevelt Blvd & Ryan Ave                      | NBL                  | 370.2 / F                         | 580.5 / F                         |
|  | SBL                  | 76.2 / E                          | 260.1 / F                         |
|  | SB (Outer)           | 32.4 / C                          | 39.8 / D                          |
| Roosevelt Blvd & Rhawn St                      | SBL                  | 291.7 / F                         | 416.8 / F                         |
| Roosevelt Blvd & Holme Ave                     | EB                   | 32.2 / C                          | 45.8 / D                          |
|  | SB                   | 29.2 / C                          | 43.9 / D                          |
| Roosevelt Blvd & Woodward St                   | SB (Inner)           | 34.4 / C                          | 55.3 / E                          |
|  | SBR                  | 28.9 / C                          | 53.3 / D                          |
| Roosevelt Blvd & Goodnow St                    | SB (Inner)           | 31.9 / C                          | 43.7 / D                          |
|  | SB (Outer)           | 29.4 / C                          | 37.4 / D                          |
| Roosevelt Blvd & Nabisco Dr                    | EBL (to Inner)       | 52.5 / D                          | 83.1 / F                          |
| Roosevelt Blvd & Comly Rd                      | SBL                  | 147.4 / F                         | 421.7 / F                         |
| Roosevelt Blvd & Byberry Rd                    | NB U-turn (to Inner) | 53.8 / D                          | 72.5 / E                          |
|  | SBT (Inner)          | 14.0 / B                          | 39.6 / D                          |
| Roosevelt Blvd & Hornig Rd                     | NB (Inner)           | 11.5 / B                          | 42.7 / D                          |
| Roosevelt Blvd & Southampton Rd                | SBL                  | 170.8 / F                         | 655.3 / F                         |
|  | SB (Outer)           | 43.6 / D                          | 56.3 / E                          |
| Roosevelt Blvd & Old Lincoln Hwy               | EB                   | 63.4 / E                          | 158.9 / F                         |

Delay increased in 2025 No Build due to BAT lanes

## Crossover Operations

PennDOT expressed a safety concern regarding impacts at the crossovers due to the shift in volumes from the outer to inner lanes. PennDOT requested additional analysis and mitigation of the potential impacts.

The existing VISSIM model does not replicate the field conditions at the crossovers as VISSIM DTA determines paths based on lowest costs between an OD pair. In the models, vehicles chose the inner versus outer lane when they enter the network from the side street compared to the field behavior of using the crossover to switch between inner and outer lanes. In real-life route preferences for an OD pair could be a function of factors such as avoiding lanes with bus stops and intersections with stop signs but not crossovers merge/diverge issues. As a result, there is a mismatch between the field crossover volume and simulation volume.

While a DTA model will ensure the total vehicles originating at any location and destined to any location match the field data, the path between the OD is overridden by shortest and least expensive paths as calculated by the model. Due to these reasons, a DTA model cannot be used to assess the impacts on crossovers due to changes in traffic demand, OD, roadway capacity, or lane use changes.

## Conclusion

For vehicular traffic, many of the approaches that degraded in 2025 No Build conditions compared to 2015 Existing Conditions are being addressed by the Build Alternatives.

- Based on the analysis, the vehicular throughput had marginal impacts due to BAT lanes in the northern section.
- The auto/tuck travel time was approximately 1 minute above or below the existing travel time.
- BAT lanes increased the travel time of the regular buses by 3-20 percent as the buses are restricted to the BAT lane and are unable to use other lanes to overtake in the 2025 No Build Conditions.

While reduction in volume plays a role in AM peak hour, the DTA models have limited ability in depicting the impacts of the crossovers on the capacity of the Boulevard. In the current models, vehicles refrain from using the crossovers due to high “waiting” cost associated with the crossovers. To estimate the impacts of crossovers with BAT lanes more accurately and develop countermeasures, static localized VISSIM models could be used.



# Roosevelt Boulevard

## Section 2 – Appendix 5

**Summary of Assumptions  
and Results for Screen 6  
2025 Build Conditions**

**September 2018**

## **APPENDIX A**



# 2025 CORRIDOR-WIDE IMPROVEMENTS

APRIL 25<sup>TH</sup> 2018

 **Route for  
Change**  
Transforming The Boulevard

# LEGEND

- XXXX – Approved by the City (all departments), SEPTA, and PENNDOT in screen 5 conclusion meeting
- XXXX – Not resolved
- XXXX – Approved to test in VISSIM only
- XXXX – Approved for now. But, need additional stakeholder agreement
- XXXX – Improvement added by HNTB after testing in VISSIM. Yet to be approved

# PRIORITIES



- INCREASE SAFETY**
- REDUCE TRAVEL TIME**
- REDUCE WAIT TIME**
- REDUCE CONFUSION**
- MANAGE ACCESS**

**P - PEDESTRIANS**

**C - CYCLISTS**

**T - TRANSIT RIDERS**

**D - DRIVERS**

# OLD YORK ROAD

- Keep 90 second cycle
  - 9<sup>th</sup> St at 120-sec cycle
- Prohibit WB Left Turn
  - Very low volume
  - Blocks WB through traffic
- Install pedestrian heads at all crosswalks
  - None currently



# 9TH STREET

- 120 second cycle
- Realign crosswalks more perpendicular
- Close Courtland St access and tighten the NW curb radius
- Bike facility proposed in 2025.  
How?
- Bump Out
  - NBR only lane to Wingohocking
  - BAT
  - NB bus stop moves to far side

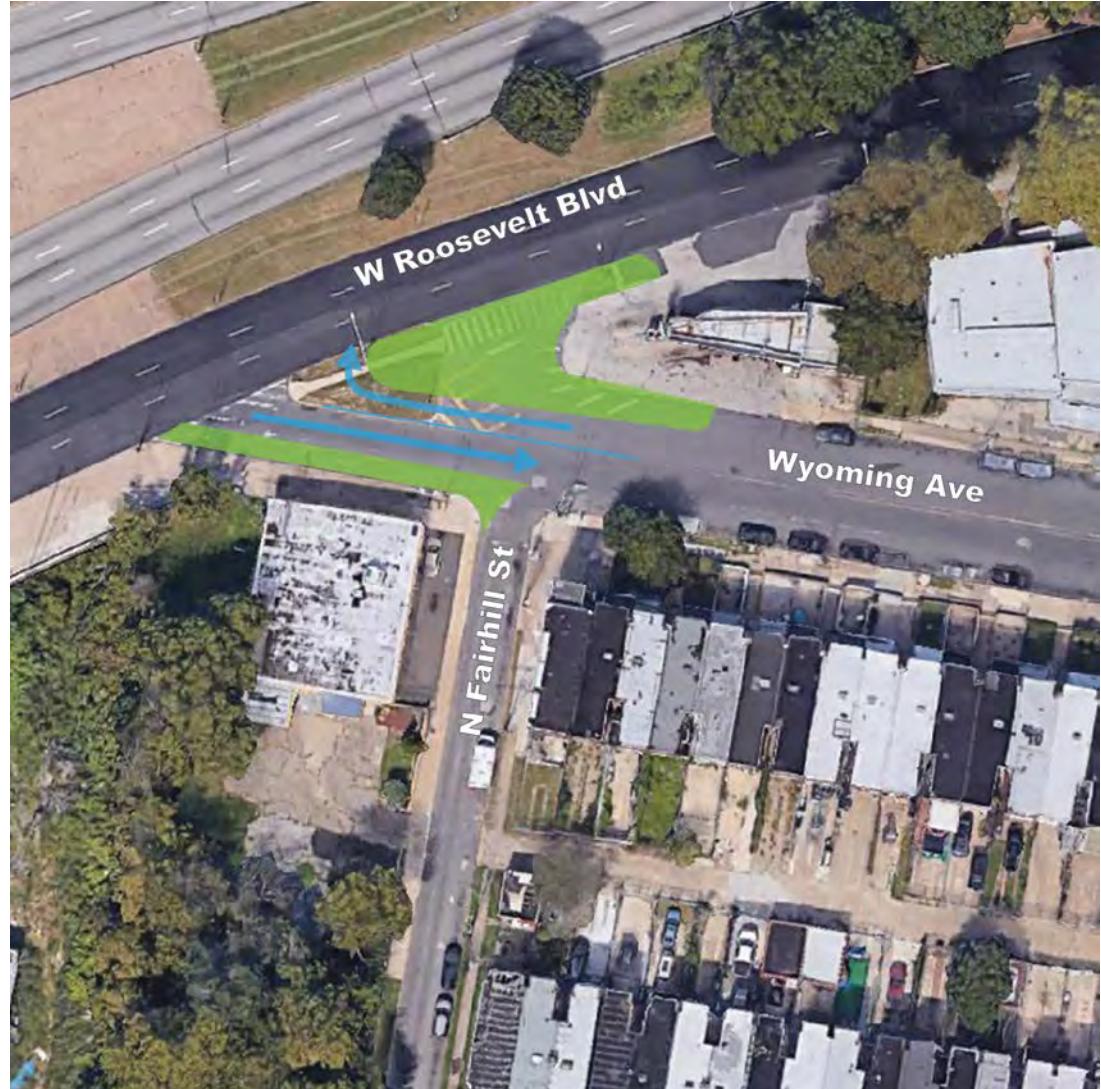


# 7<sup>TH</sup> STREET AND WYOMING AVENUE

- Need to coordinate with developer to determine improvements

# WYOMING AVENUE AND N FAIRHILL ST

- Extend island along Roosevelt Blvd
- Convert N Fairhill St to right-out only with island
- Pavement markings on Wyoming Ave for two-way



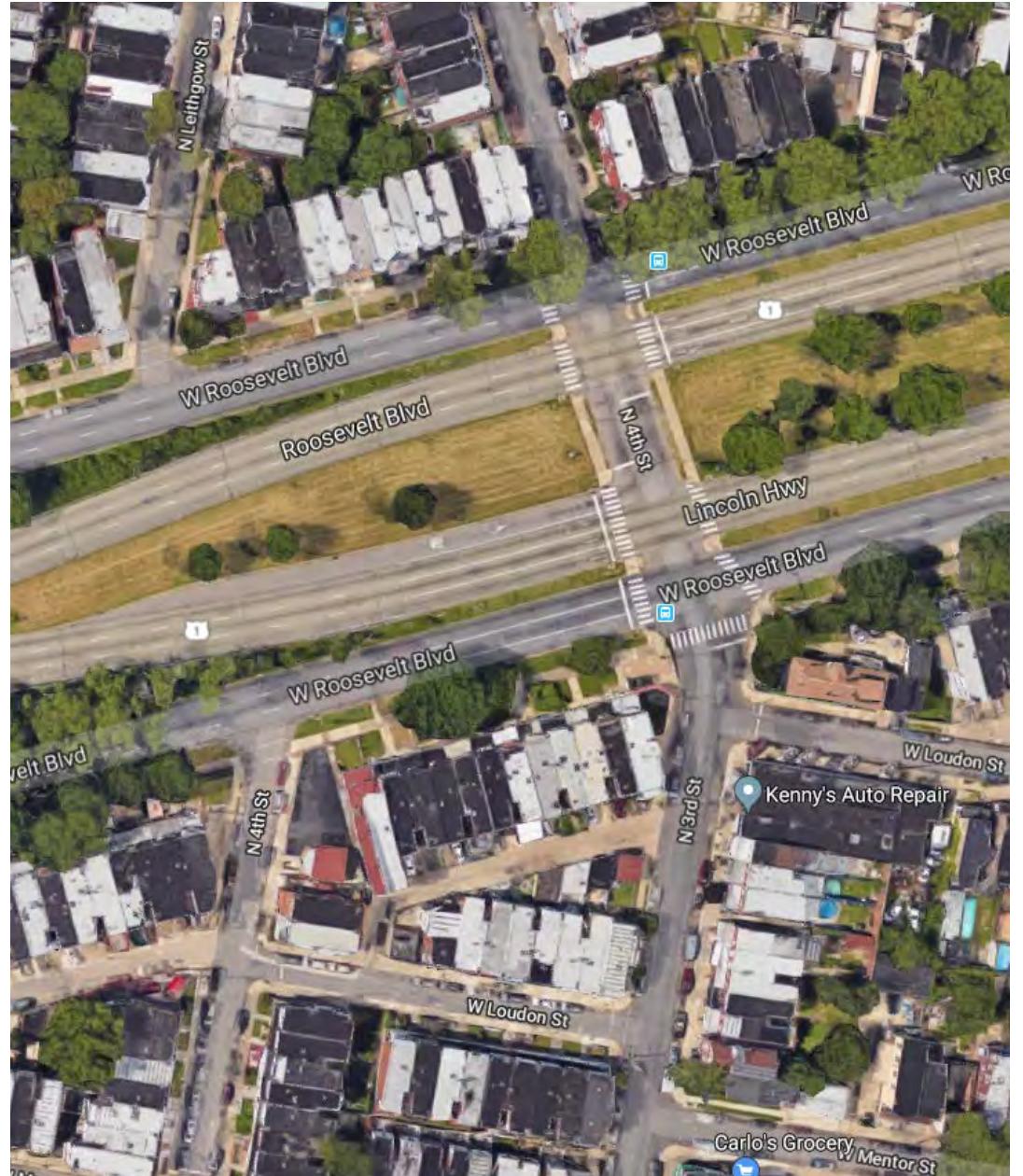
# 5TH STREET

- BAT Lane
- 120 second cycle
  - Allow pedestrians to cross Loudon St
- Bike accommodation under bridge
  - Shared use path
  - *Placemaking and lighting need to be done*
  - *Direct bus stop*



# 3RD/4TH STREET

- BAT Lane
- 120 second cycle with hold phase



# 2<sup>ND</sup> STREET/ELEANOR ST

- BAT Lane
- Close Eleanor St access
- Curb extension at Rockland St and 2<sup>nd</sup> St



# MASCHER STREET

- BAT Lane
- 120 second cycle
- Close access to Rockland Street from Boulevard
  - Loss of 3 parking spots
  - No EB Left into Rockland Street
  - Two-way with culdesac on Rockland for parcel access – *illustration needed and term for the treatment*



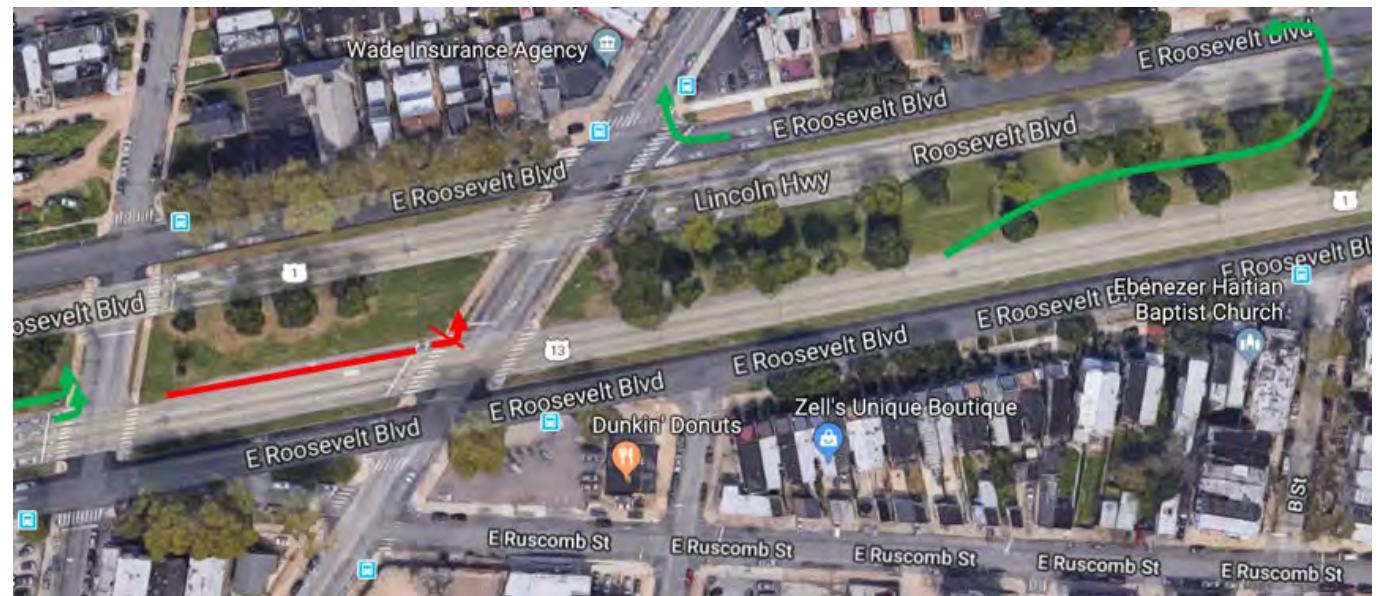
# FRONT STREET AND RISING SUN AVENUE

## Front St

- BAT Lane
- 120 second cycle with hold phase
- Dual NB Left Turn Lane (no trucks sign)
- Eliminate parking (7) on south side between Blvd and Albanus St
- Straighten crosswalk on southwest corner

## Rising Sun Av

- BAT Lane
- 120 second cycle
- Shift NB lefts to J-turn at B St
  - Auto turns analysis required
  - Crossover (In to Out) eliminated
- 11 foot lanes on Boulevard
- Realign crosswalks more perpendicular



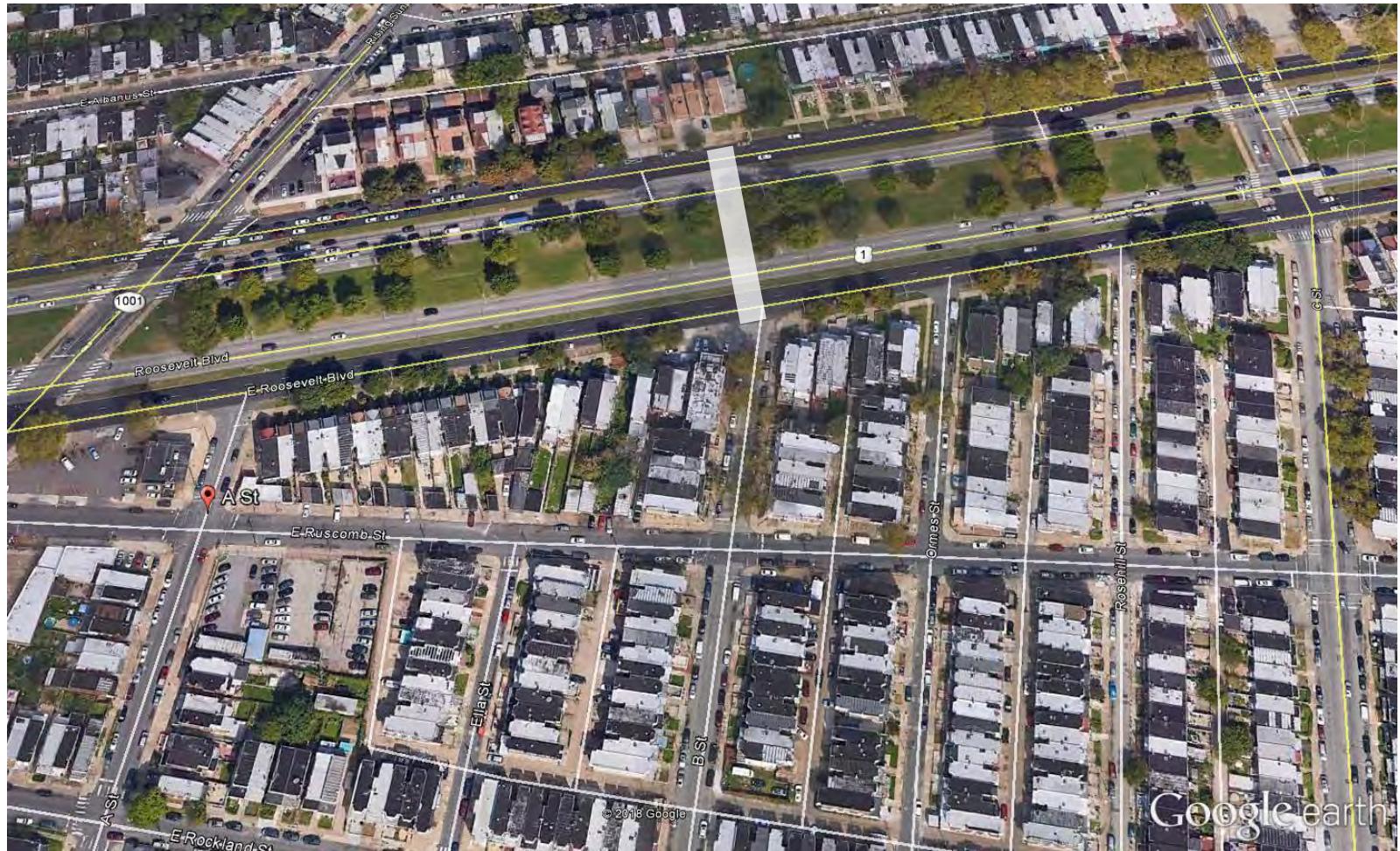
# A STREET AND B STREET

## A St

- BAT Lane
- Bump out on north side

## B St

- BAT Lane
- Add pedestrian crossing at proposed U-turn location
- Additional signal for NB Roosevelt Blvd



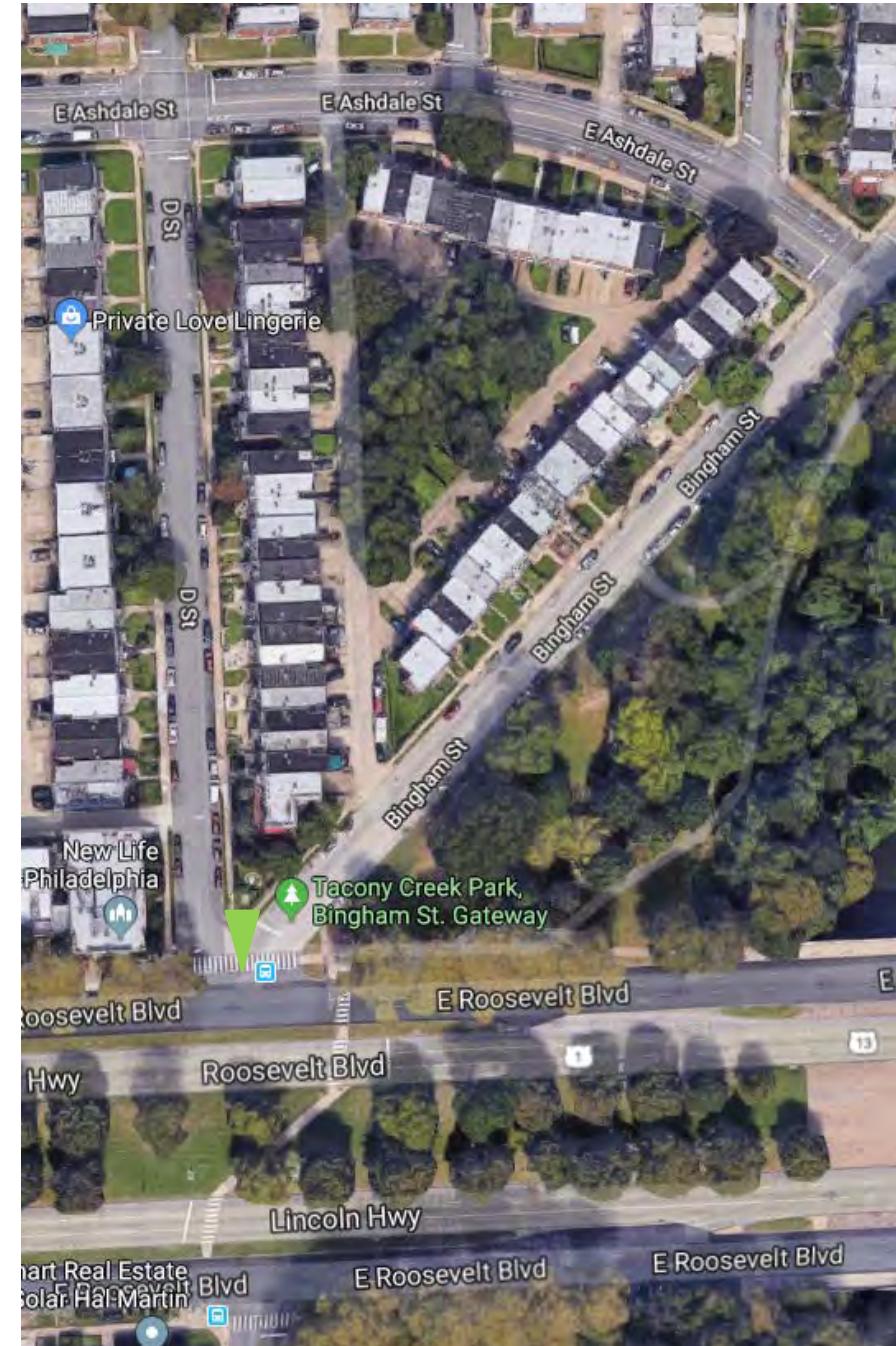
# C STREET

- BAT Lane
- 120 second cycle with hold phase
- Add 2<sup>nd</sup> lane on EB approach
  - Completed - Fall 2017 Google imagery shows recent re-striping with 2 lanes and bike lanes



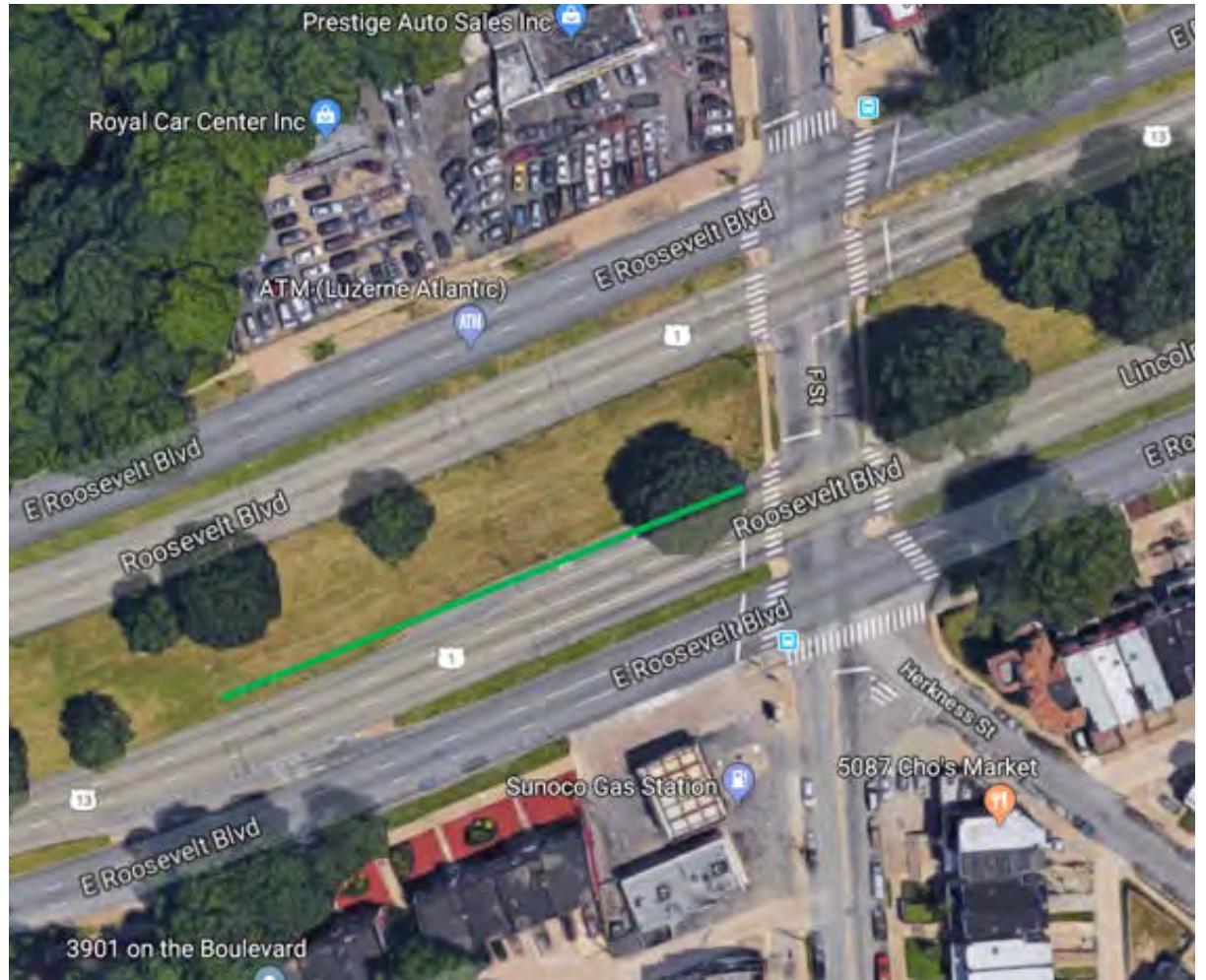
# D STREET

- BAT Lane
- Extend nose of D St and Bingham St to Crosswalk



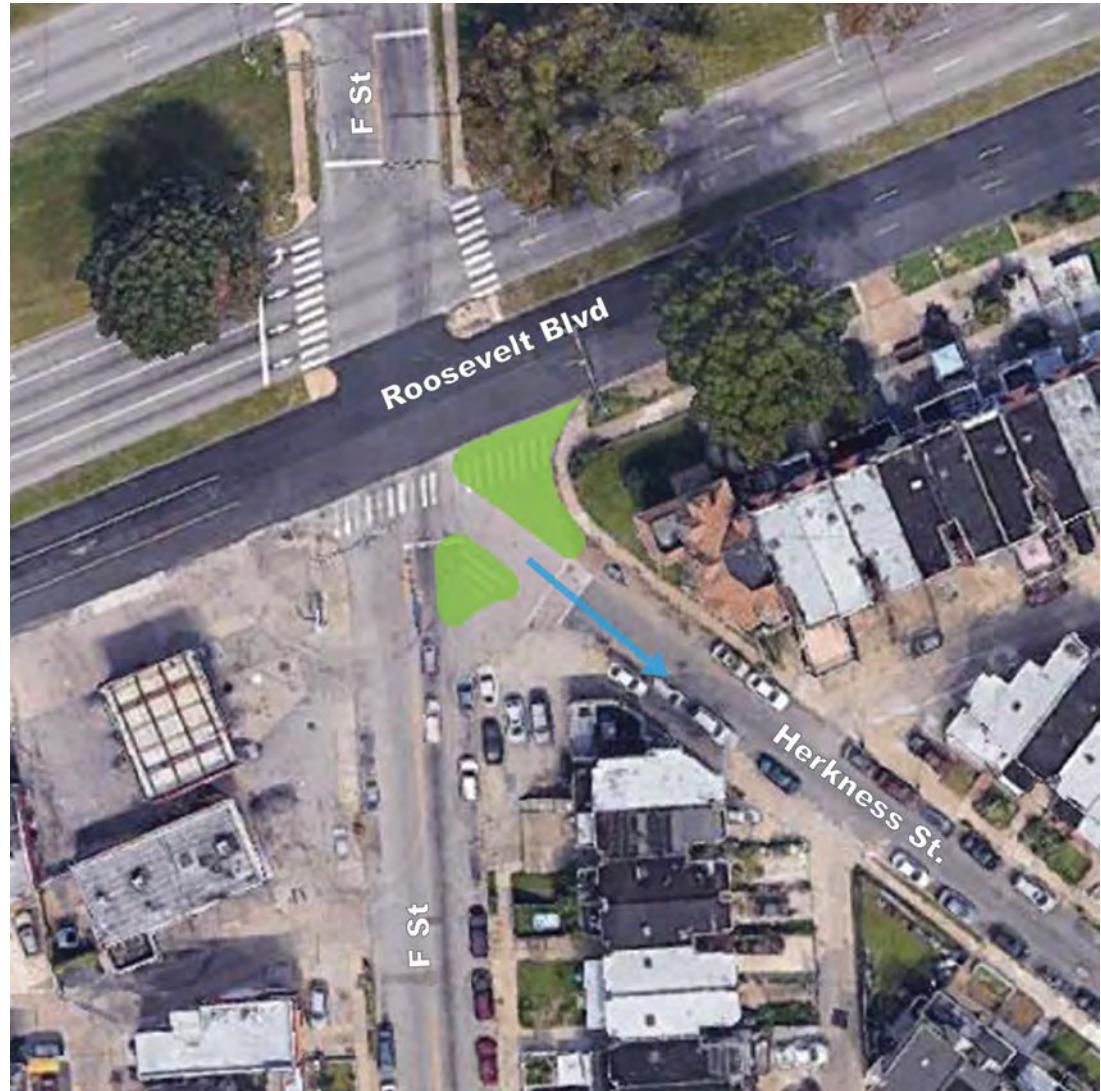
# F STREET

- BAT Lane
- 120 second cycle with hold phase
- Extend NB Left Turn Bay
  - Exact length to be determined using microsimulation models
  - Extend turn bay length to 350 ft



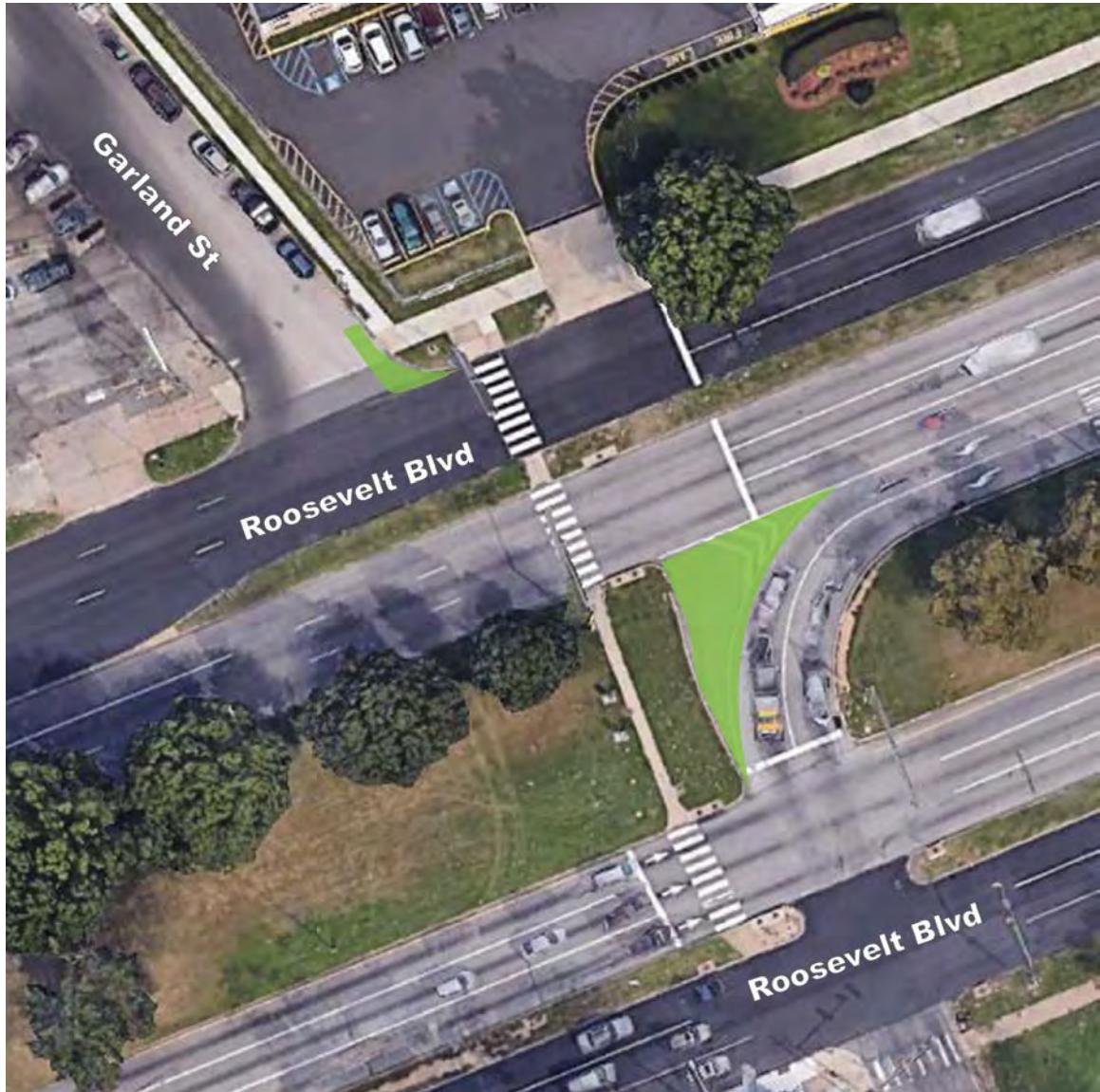
# HERKNESS STREET

- BAT Lane
- Side street bump-out
- Create an island with green space



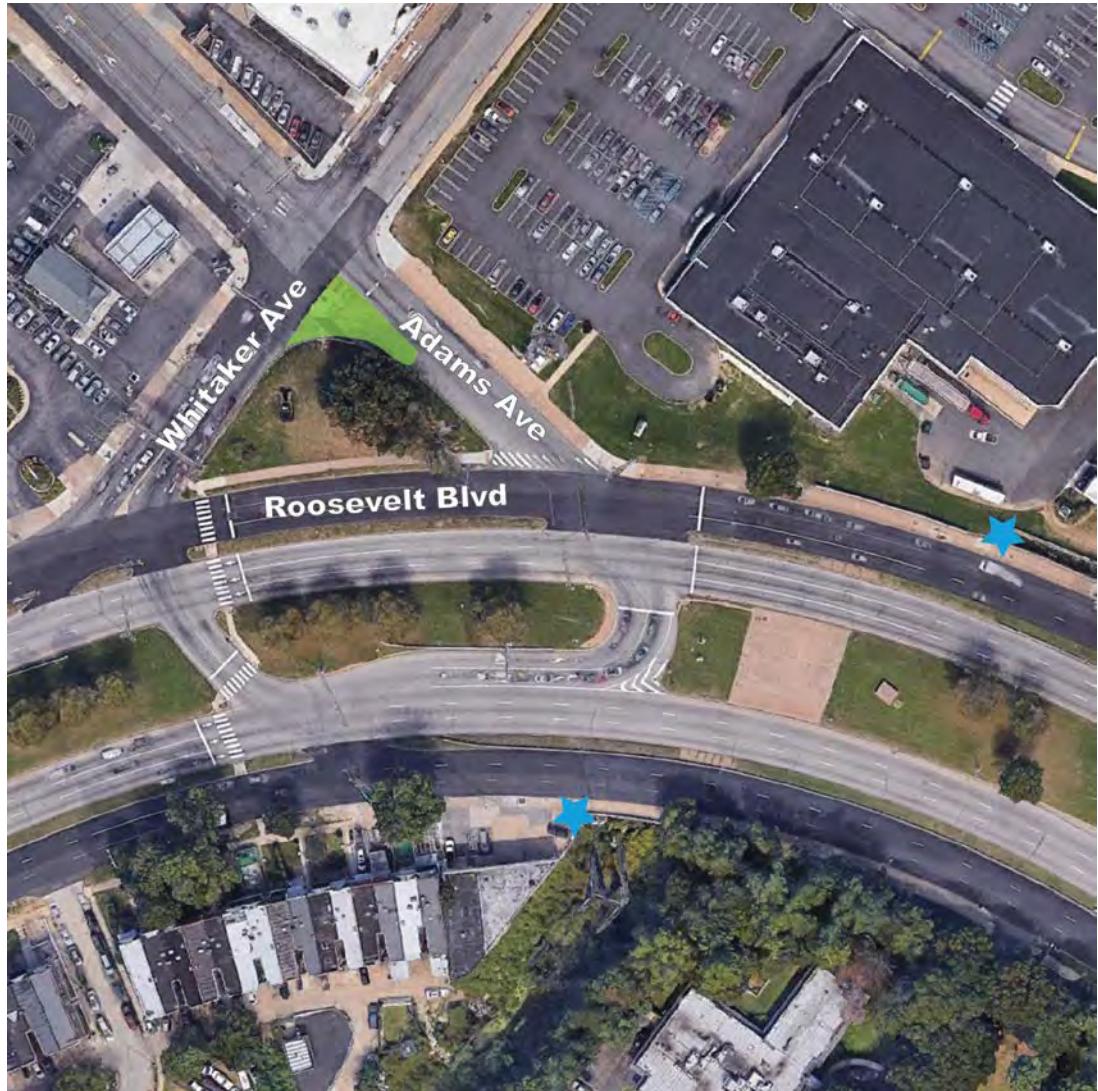
# GARLAND STREET

- Side-street bump out
- Extend green space on inner lanes at SBL



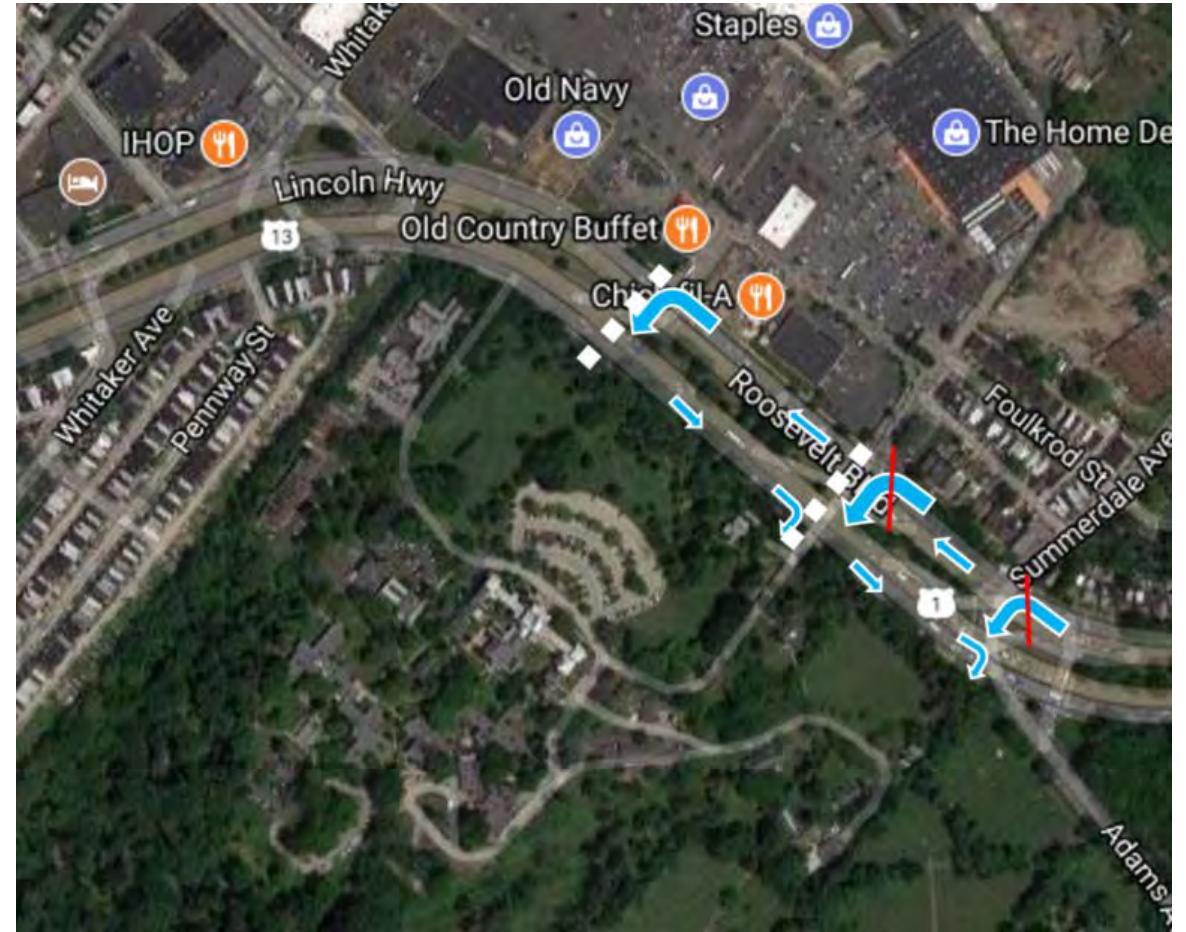
# WHITAKER/ADAMS AVENUE

- Remove WBL bay at Whitaker and Adams Ave
- Clean entrance to unused pedestrian tunnel
- Depending on BAT Lane limits: Add guard rail between Adams Ave and Fulkrod St on NB Roosevelt Blvd
- S-Curve with and without BAT
- EB approach at Whitaker and Adams Ave RIRO only
  - Traffic shifted to Adams Ave
- Realign Whitaker Ave WB approach



# ADAMS/SUMMERDALE AVENUE

- Eliminate the SB left at Adams Avenue and Langdon Street
  - Replace with a Michigan U-turn at Tower Blvd
  - Add full pedestrian crossing at Tower Blvd
- Add a crosswalk on north side of Langdon St
- Move NB crossover



# SUMMERDALE/ADAMS

- Realign pedestrian crossing on south side at Adams/Summerdale Avenue
- Tighten radius from NB right turn to Adams Ave
- How to fit a bike facility on Adams and along Roosevelt?
- Eliminate NB left at Adam Ave and replace with M-U at Allengrove St
- Check various ped phasing
- Possible road diet on WB Adams Ave (2 in, 1 out)



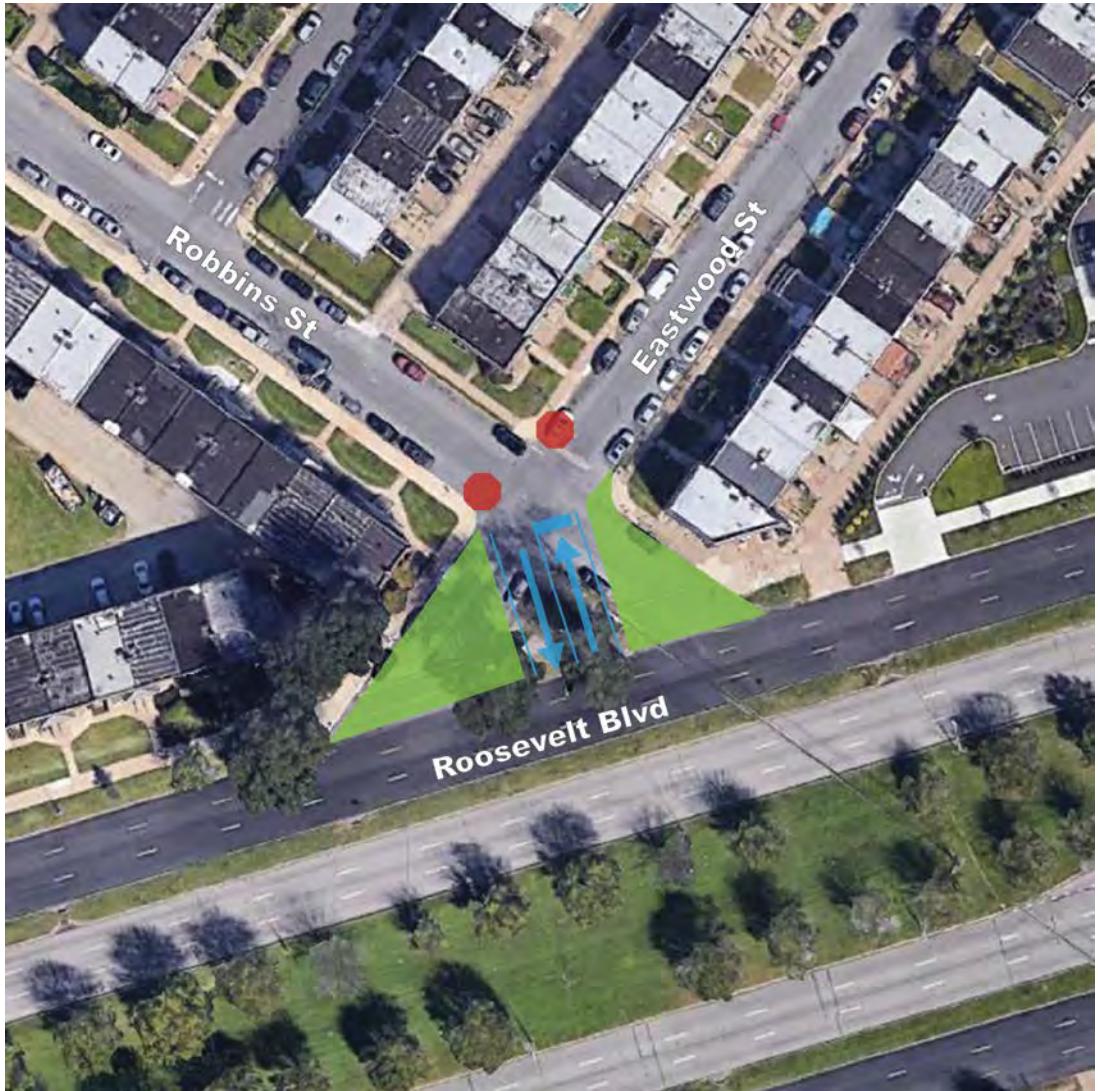
# FOULKROD STREET AND RAMONA AVENUE

- Consolidate access points



# EASTWOOD STREET AND ROBBINS STREET

- Consolidate access points



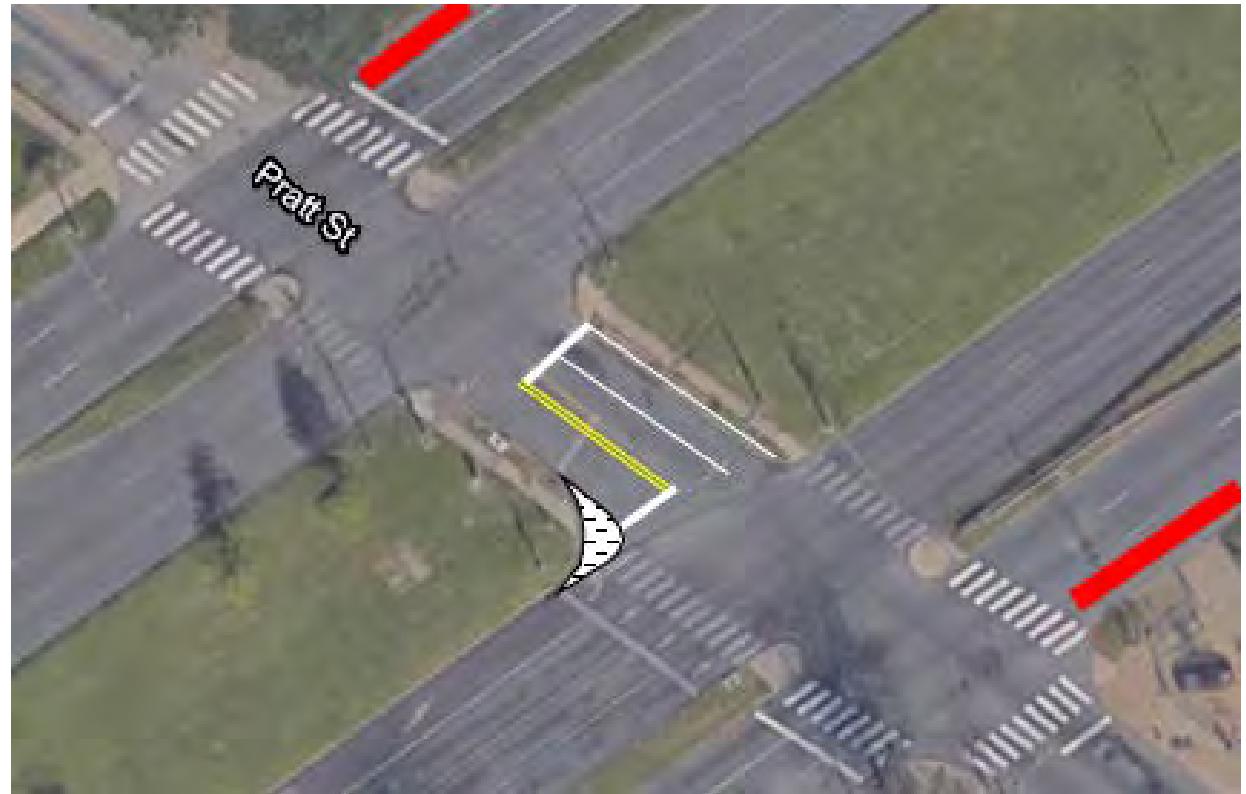
# ALLENGROVE STREET

- Staggered pedestrian crosswalk connecting bus stops and playground
- Potentially add Michigan Left Turn to replace NBL at Adams St



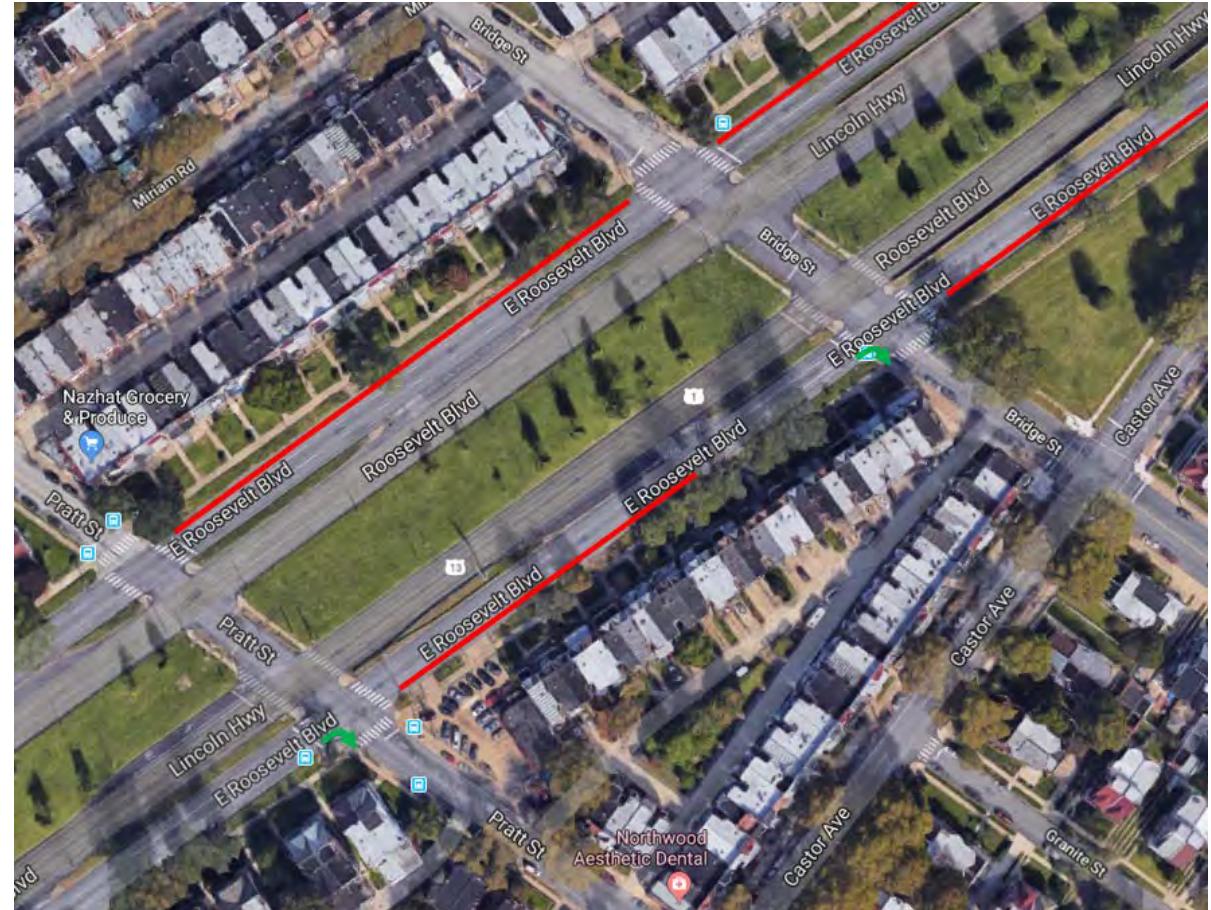
# PRATT STREET

- BAT Lane on south side
- Bump out on north side
- 120 second cycle with hold phase
- Restripe median with 2 WB lanes



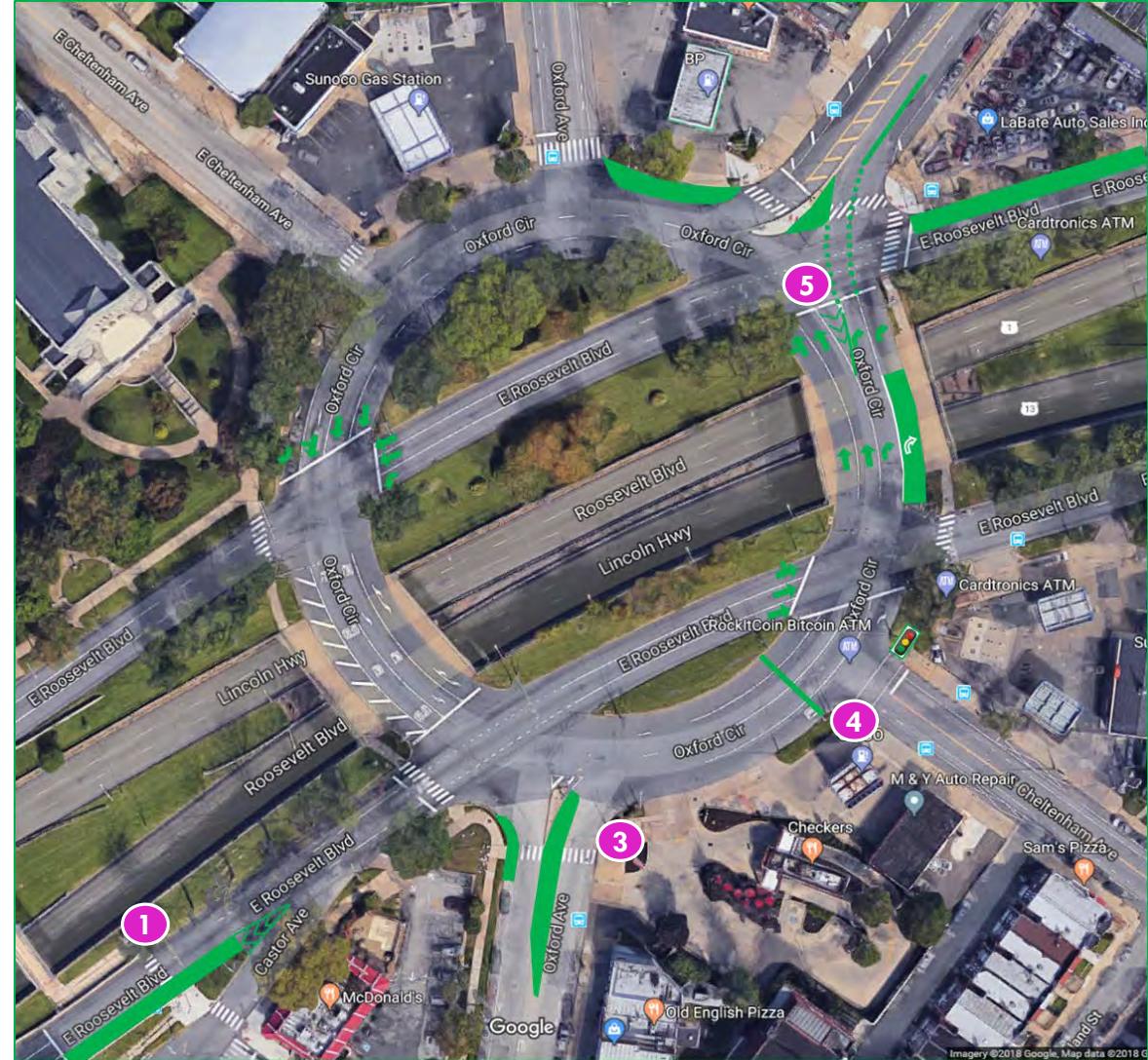
# BRIDGE STREET

- Bump outs
  - NB right needs turn bay
- 120 second cycle with hold phase
- Add 2<sup>nd</sup> EB receiving lane
  - Restripe median to show 2 EB lanes
  - Remove 8 parking paces between Boulevard and Castor Ave



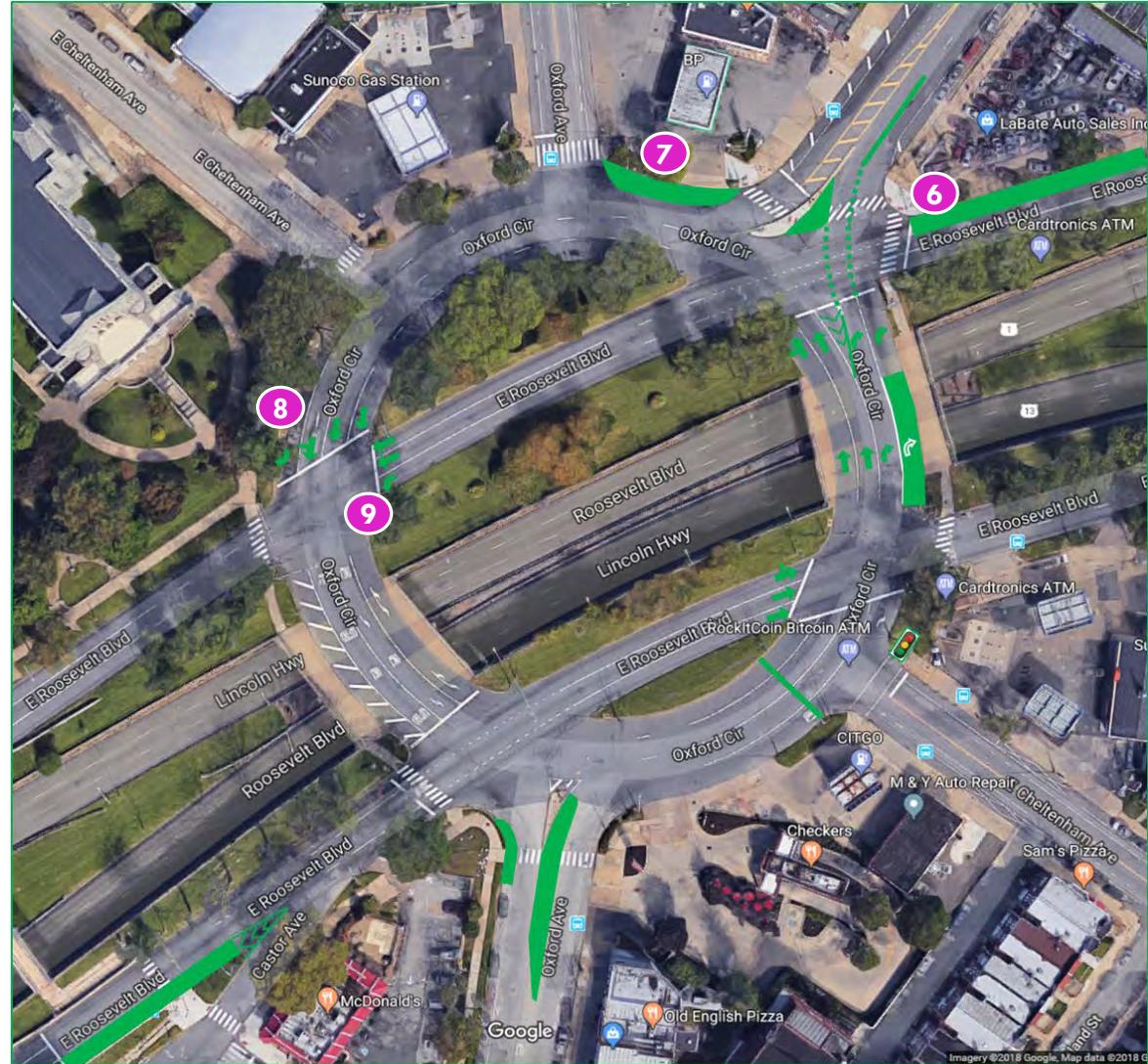
# OXFORD CIRCLE

1. Bump out at NB Roosevelt Boulevard
  - Castor Ave as additional lane
2. 60 second cycle (currently 90)
3. Pedestrian refuge island at east Oxford Avenue
4. Add a stop bar to allow vehicles from Cheltenham Ave
5. Change lane configuration on north side of circle



# OXFORD CIRCLE

6. Bump out at SB Roosevelt Blvd and Oxford Cr
7. Expand median and sidewalk between west Castor and Oxford Ave
8. Change lane configuration on SE section of circle to T + T + TR + R
9. Change lane configuration of SB Roosevelt Blvd inside circle to L + T + T



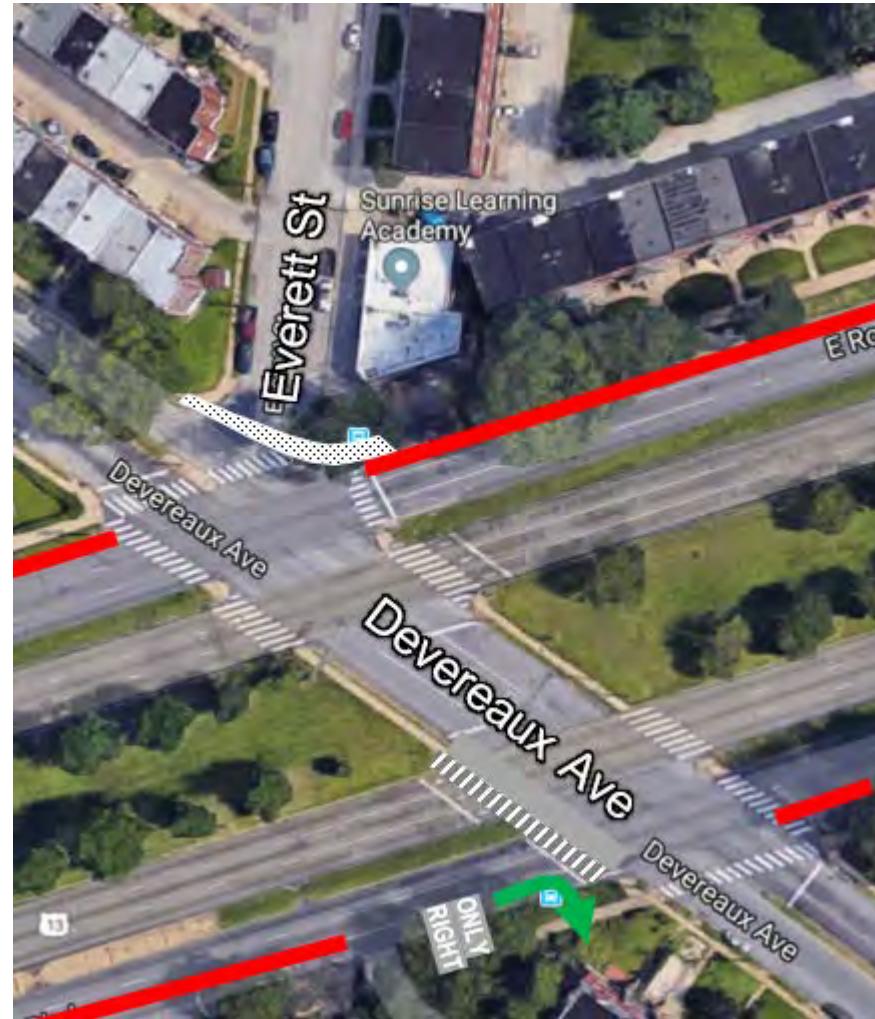
# LARGE STREET

- Bump out
- 120 second cycle with hold phase
- Add 2<sup>nd</sup> WB receiving lane by removing parking between Boulevard and Creston Street
- Treat median islands for 2 lanes in each direction – reduce width of Van Kirk St
- **Modify the curb between inner lanes on the north side**
- Realign crosswalks
- **Side street bump outs at Comly St/Large St**



# DEVEREAUX AVENUE

- Bump out
  - NB right needs turn bay
- 120 second cycle
- 11 foot lanes on Boulevard
- Close access to Everett St
- Pullback the crosswalk on NB lanes (south side)



# BUSTLETON AVENUE AND LEVICK STREET

1. No bump out or BAT through Bustleton Ave and Levick St
2. 120 sec cycle with hold phase
3. 4-phase operation to clear Levick St at Bustleton Ave
4. Signal at Hellerman/Bustleton for buses and rerouting
5. Crosswalk realignment and median extension
6. Realign Levick St to eliminate signal heads and increase storage (120 sec cycle)

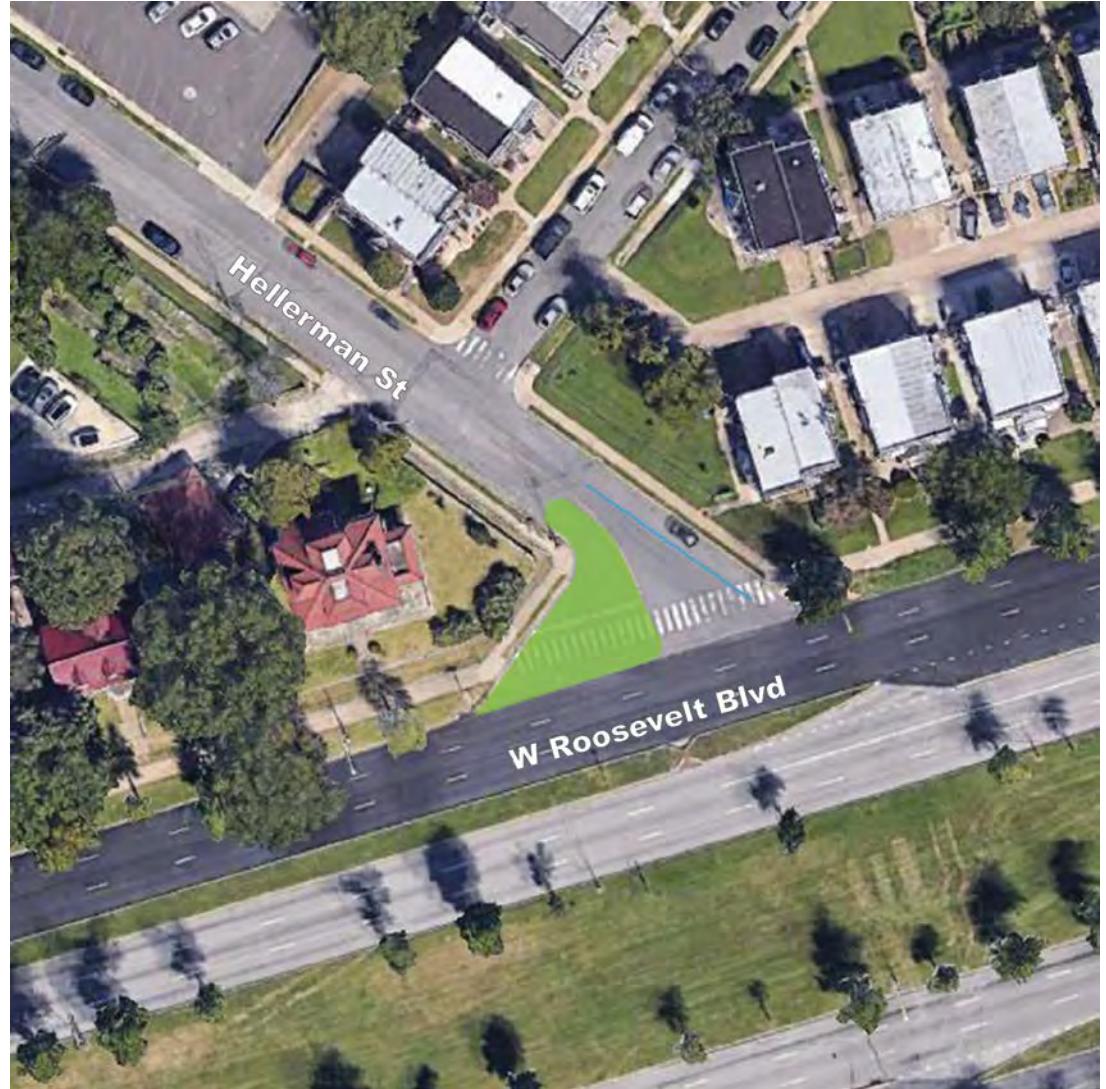


7. Restriping to
  - a) Add a storage bay for EBL at Robbins and shift EBT vehicles on the receiving leg
  - b) Add a lane in median for WB
  - c) Eliminate WB and SB lefts at Levick and Bustleton
8. Extend the NB left storage
9. Bump out at NB Blvd and Bustleton
10. Modify island at Levick and Bustleton to create more traffic separation
11. 11 feet lanes on Boulevard



# HELLERMAN STREET

- Side-street bump out
- Provide side-street lane markings



# ELBRIDGE STREET AND MAGEE AVENUE

## Elbridge St (east)

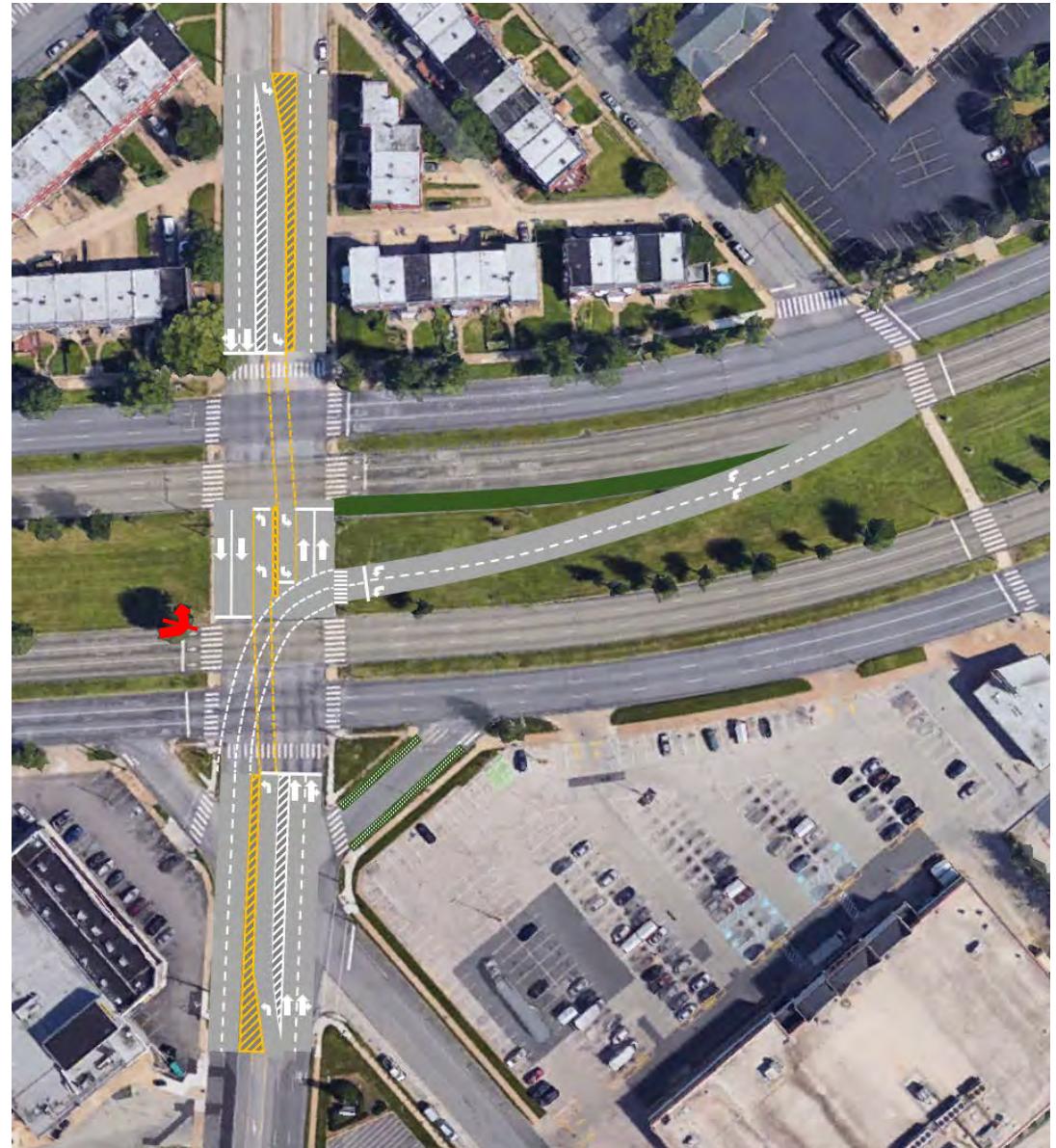
- Side-street bump out on NE corner
- BAT Lane

## Magee Ave (west)

- Side-street bump out
- Extend center median
- BAT Lane

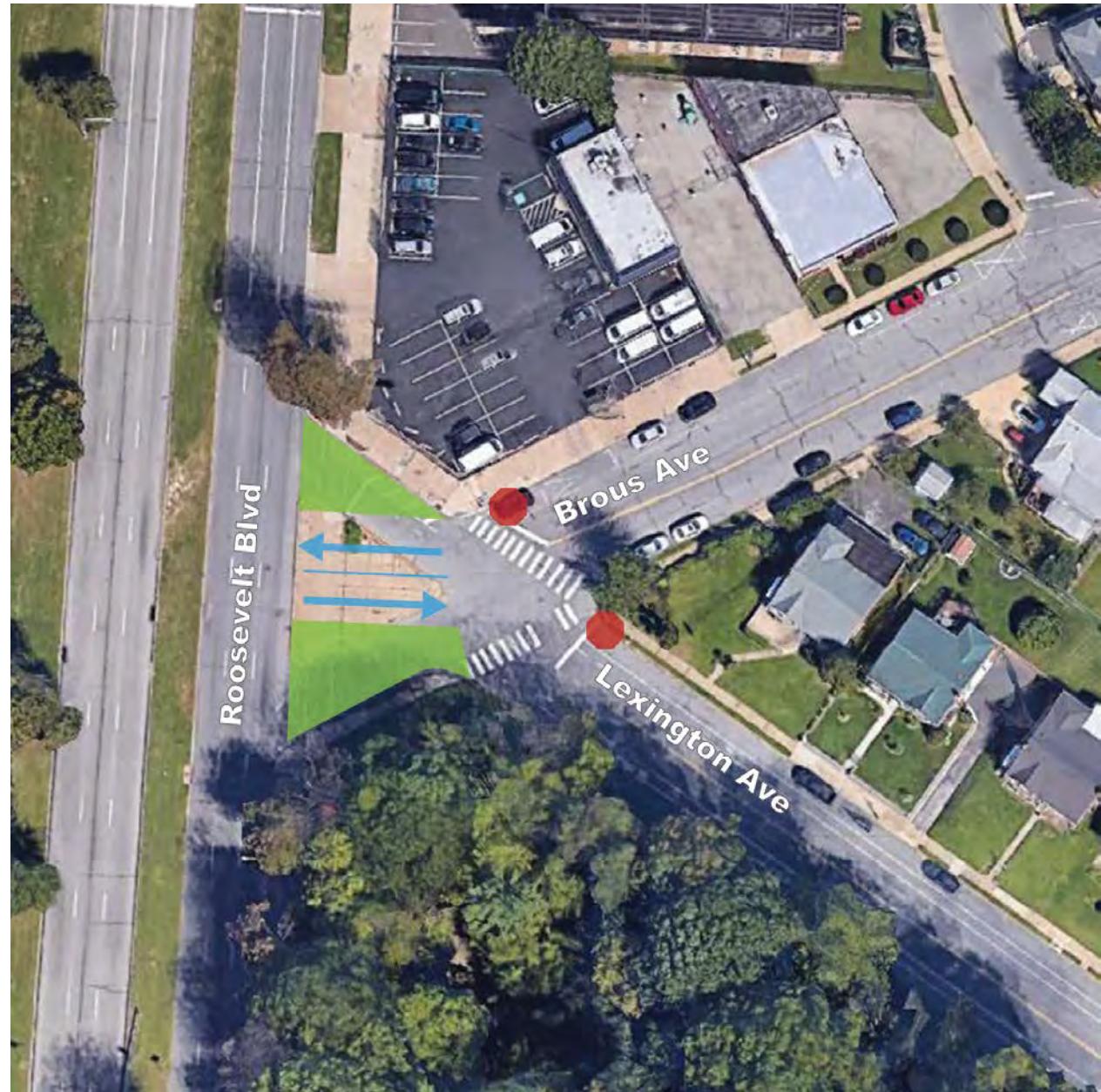
# HARBISON AVENUE

- BAT Lane
- 120 second cycle with hold phase
- Prohibit NB left
- Separated dual SB left
- Narrow channelization in east leg
- Offset Left Turns



# LEXINGTON AVENUE BROUS AVENUE

- Consolidate access points
- BAT Lane



# TYSON AVENUE

- BAT Lane
- 120 second cycle with hold phase
- Restripe median
  - Install stop bar
  - Shift buffer zone to be between WB bike lane and car lane in median



# COTTMAN AVENUE AND SANDYFORD AVENUE

## Cottman Ave

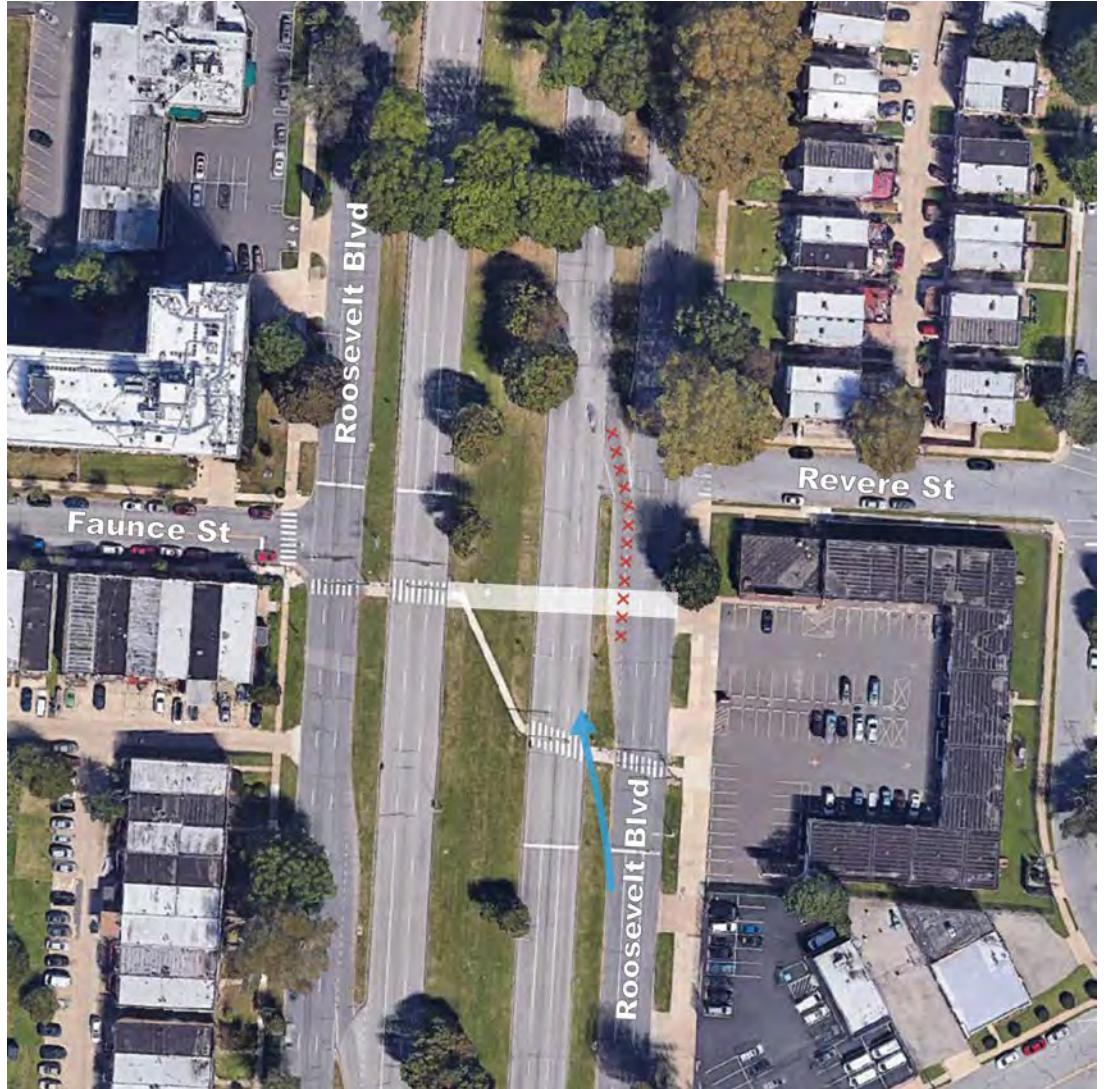
- Demand is expected to increase by 100-200 veh on both side-street approaches in 2025
- City is conducting a corridor study
- BAT Lane

## Sandyford Ave

- Side street bump outs
- Median pedestrian refuge
- BAT Lane

# FAUNCE STREET

- Move crosswalk on NB lanes further north to straighten crossing
- Move crossover on NB lanes further south
- BAT Lane



# STRAHLE STREET

- Side-street bump outs on the west side

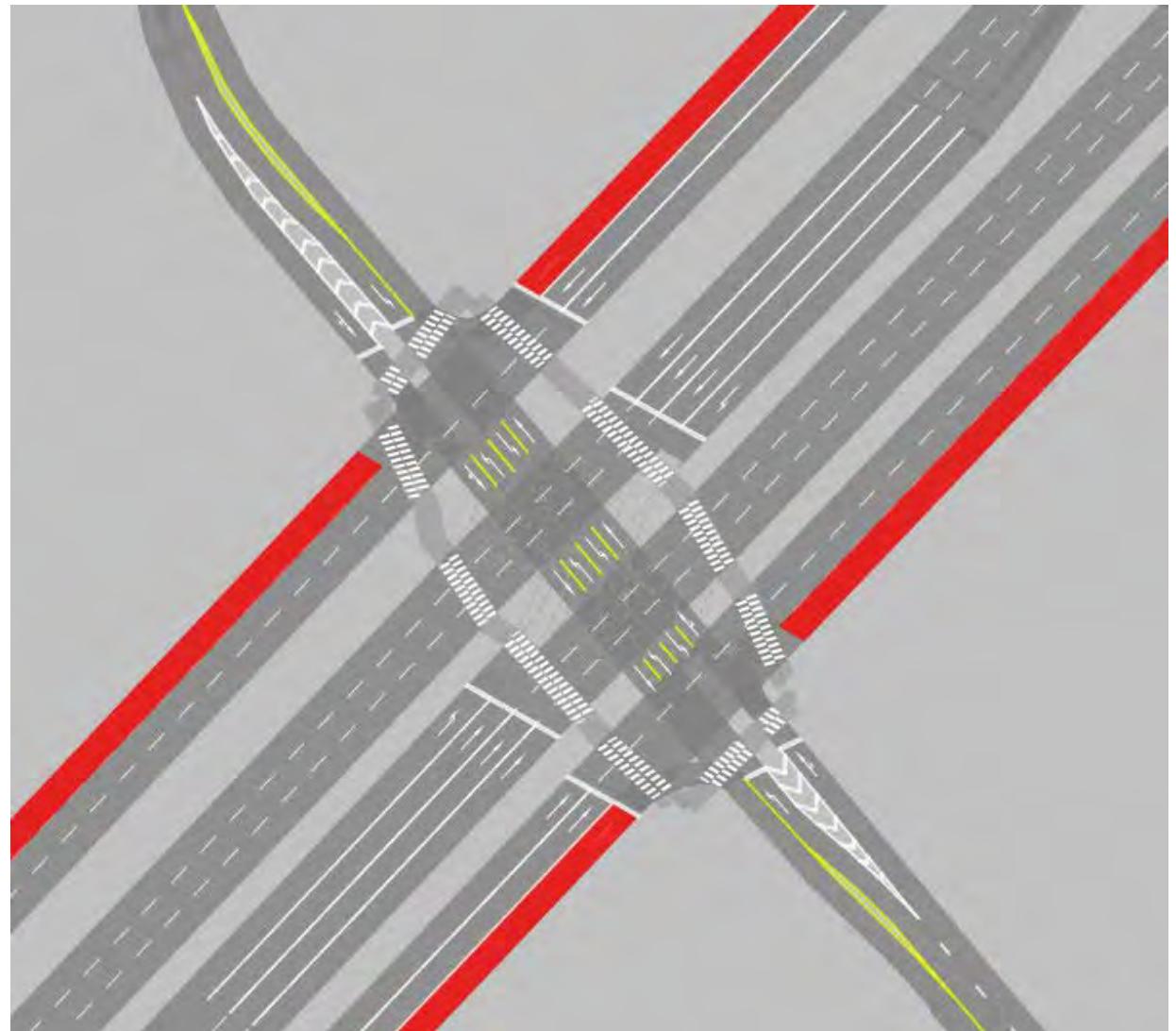
# WOODWARD STREET

- Side-street offset left
- BAT Lane



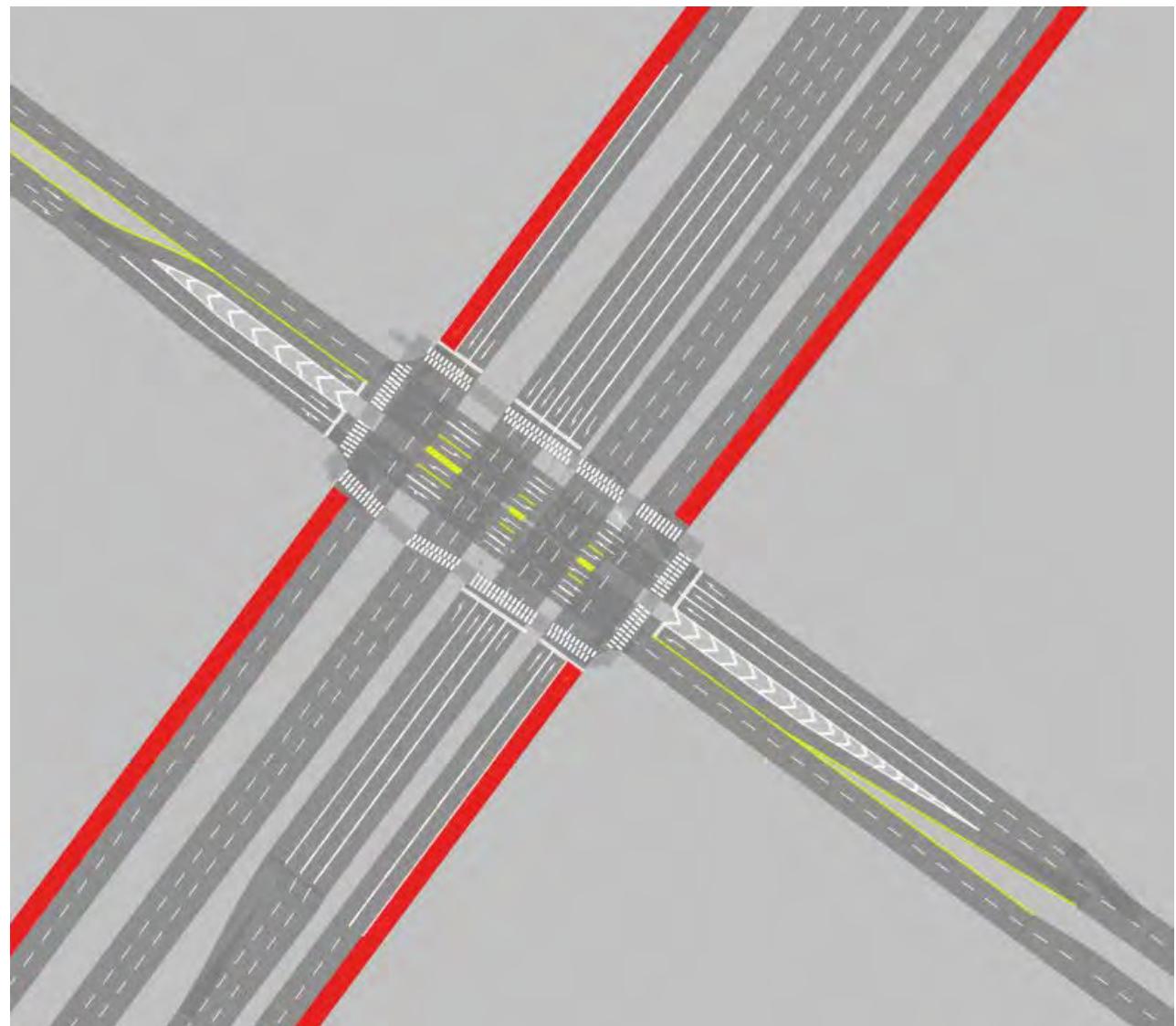
# WELSH STREET

- Side street offset left turn
- BAT Lane



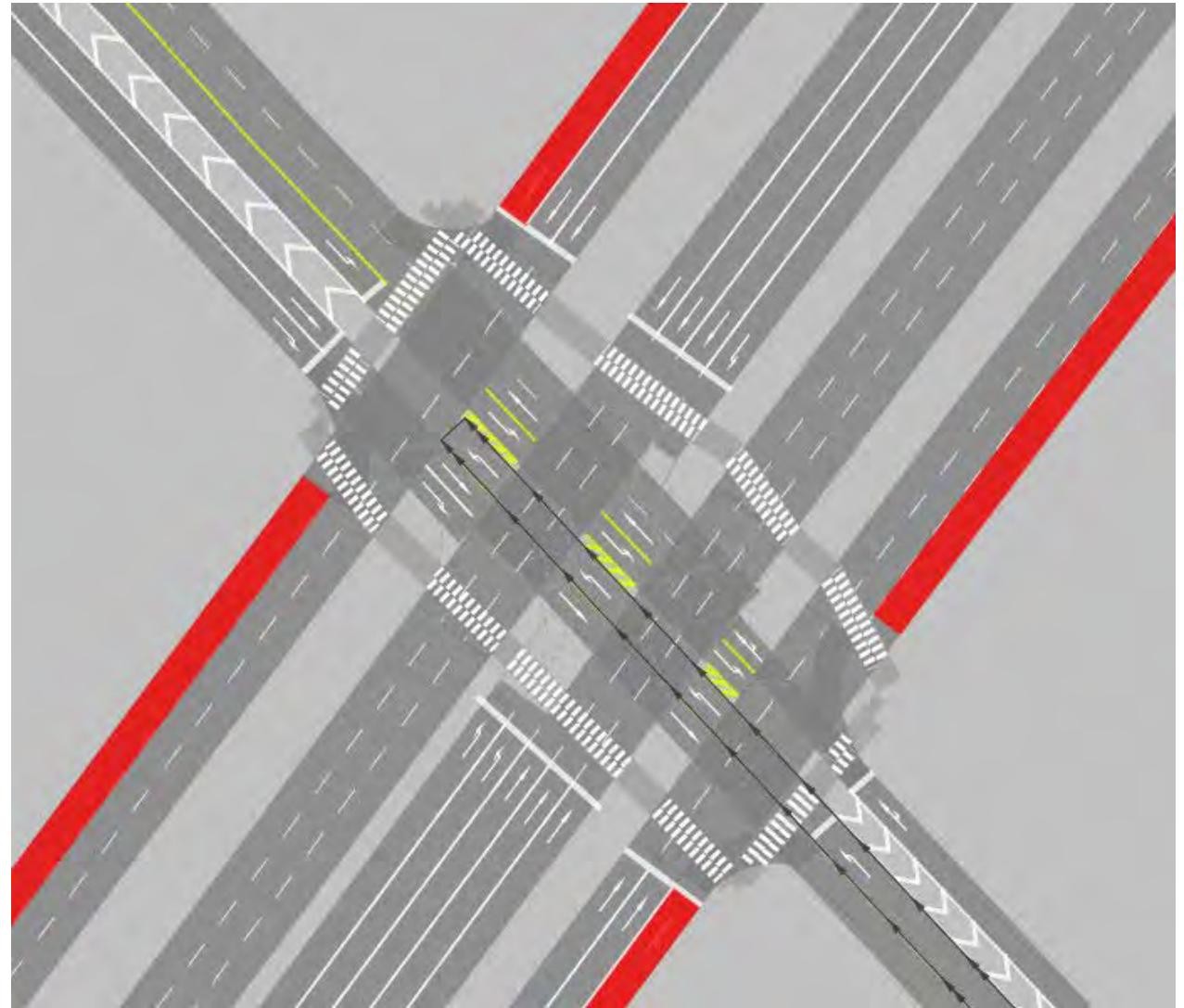
# GRANT AVENUE

- Side street offset left turn
- BAT Lane
- Expand center median to provide larger pedestrian refuge
- Move pedestrian signal heads on north side



# RED LION ROAD

- Side street offset left turn
- BAT Lane
- Expand center median to provide larger pedestrian refuge
- Move pedestrian signal heads on south side



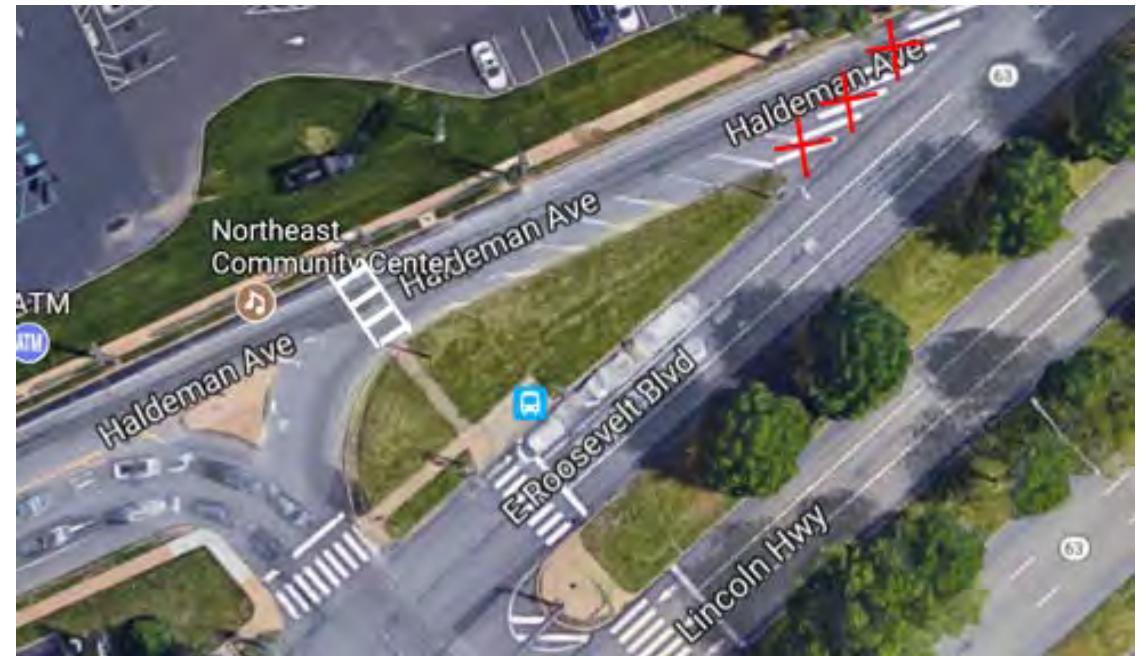
# FULMER STREET AND WHITMAN SQUARE

- Straighten crosswalk
- Extend median
- BAT Lane



# HALDEMAN AVENUE

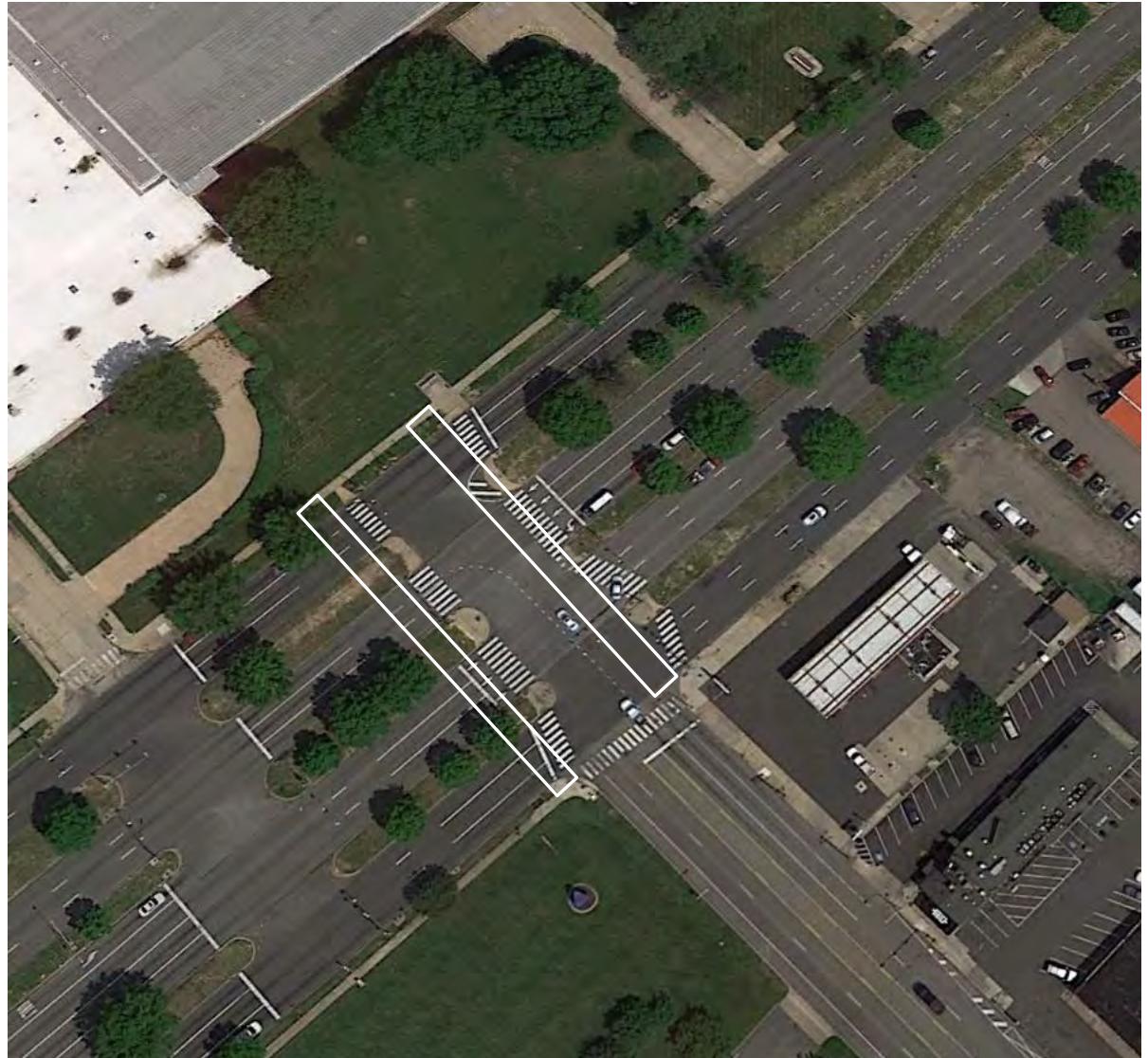
- Move crosswalk perpendicular to jug-handle
- BAT Lane



# COMLY ROAD

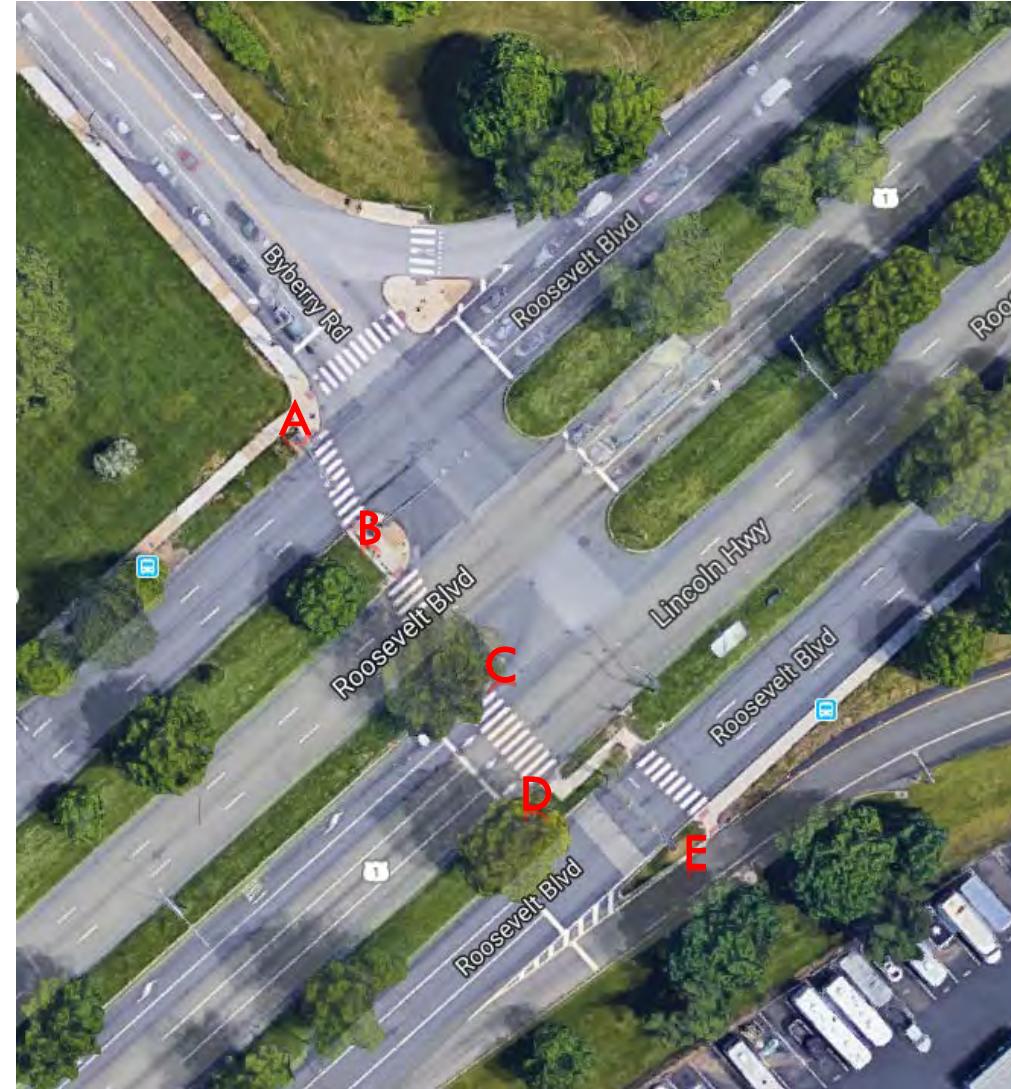
## Comly Rd

- Straighten crosswalk
- BAT Lane



# BYBERRY ROAD

- Move pedestrian signal head from location C to B
  - Crossing A to B can be done concurrent with NBL turn phase
  - Crossing B to D can be done concurrent with EB phase
  - Crossing D to E is actuated (same as existing)
- Reduces 3 stage crossing to 2 stage crossing
- BAT Lane

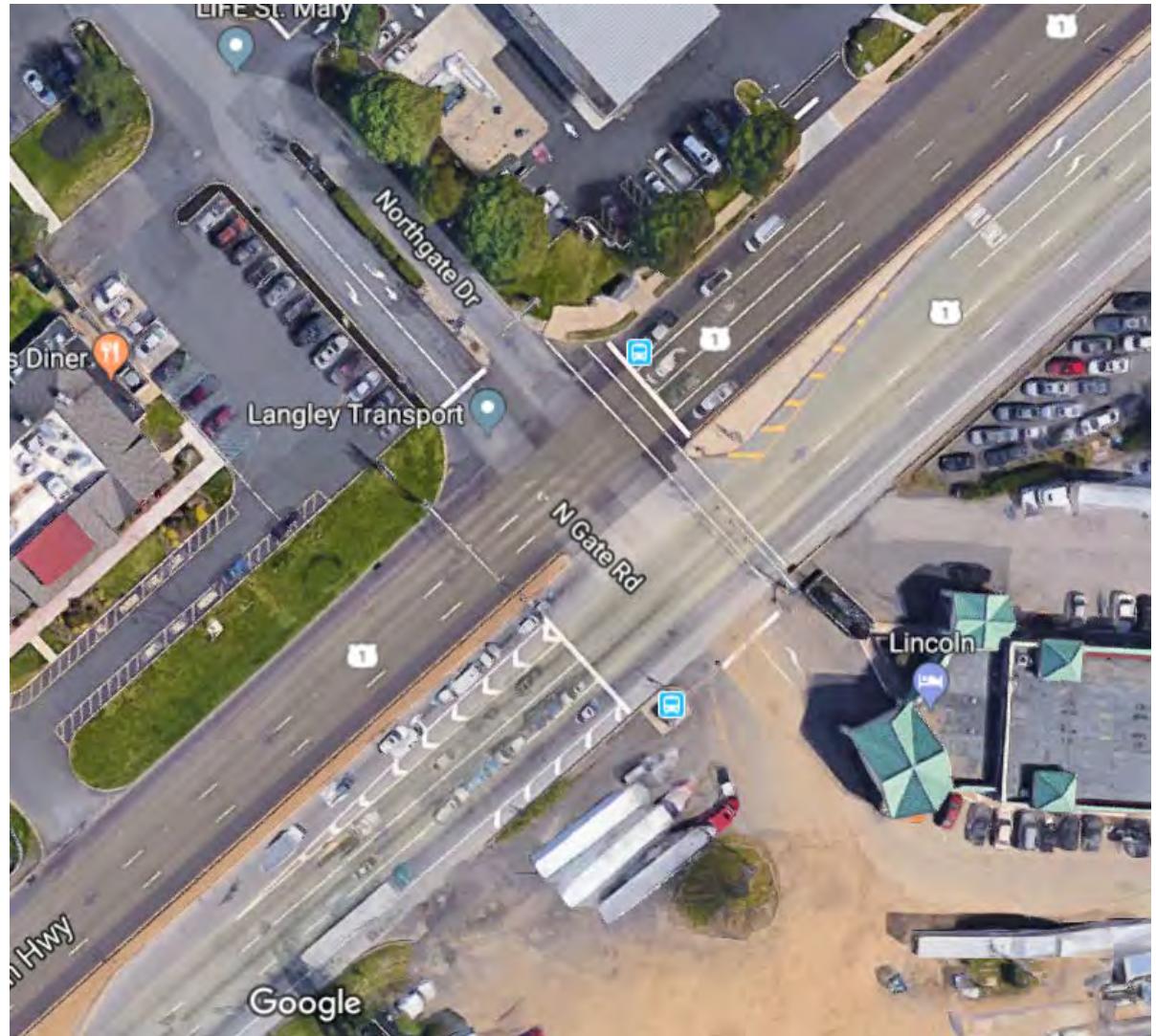


# SOUTHAMPTON ROAD

- BAT Lane
- Need to know developer plans

# NORTHGATE DRIVE

- Increase NB left storage bay
  - Exact length to be determined using microsimulation models
  - Fits on the existing bridge footprint



# OLD LINCOLN HIGHWAY

- Signalize EB right turn
- Restripe WB approach
  - 1 Left Turn Only Lane
  - 1 Through + Right Lane
- Prohibit NB U-Turn
- Memo sent to Bensalem Township



# BUSTLETON AVENUE AND LEVICK STREET

## 7. Restriping to

- a) Add a storage bay for EBL at Robbins and shift EBT vehicles on the receiving leg
- b) Add a lane in median for WB
- c) Eliminate WB and SB lefts at Levick and Bustleton

## 8. Extend the NB left storage

## 9. Bump out at NB Blvd and Bustleton

## 10. Modify island at Levick St and Bustleton Ave to create more traffic separation

## 11. 11 feet lanes on Boulevard



## **APPENDIX B**

| Intersection                 | Movement | Volumes             |                       |                    |                          | Level of Service |               |            |                  |
|------------------------------|----------|---------------------|-----------------------|--------------------|--------------------------|------------------|---------------|------------|------------------|
|                              |          | 2015 Existing (vph) | 2025 No Build Δ (vph) | 2025 Build Δ (vph) | 2025 Build S BAT Δ (vph) | 2015 Existing    | 2025 No Build | 2025 Build | 2025 Build S BAT |
| Broad St & Roosevelt Blvd    | EBT      | 911                 | 1%                    | 1%                 | 1%                       | A                | A             | A          | A                |
|                              | EBR      | 115                 | 26%                   | 27%                | 27%                      | A                | A             | A          | A                |
|                              | WBT      | 1,272               | 2%                    | 2%                 | 2%                       | B                | B             | B          | B                |
|                              | WBR      | 375                 | 22%                   | 22%                | 22%                      | B                | B             | B          | B                |
|                              | NBT      | 777                 | -13%                  | -13%               | -13%                     | C                | C             | C          | C                |
|                              | NBR      | 3                   | -31%                  | -31%               | -31%                     | C                | C             | C          | C                |
|                              | SBT      | 445                 | 12%                   | 12%                | 12%                      | B                | B             | B          | B                |
| Broad St & Bristol St        | SBR      | 0                   | -                     | -                  | -                        | A                | A             | A          | A                |
|                              | EBT      | 867                 | 6%                    | 6%                 | 6%                       | B                | A             | A          | A                |
|                              | WBT      | 1,272               | 2%                    | 2%                 | 2%                       | A                | A             | A          | A                |
|                              | NBL      | 22                  | -5%                   | -5%                | -5%                      | C                | C             | C          | C                |
|                              | NBR      | 49                  | 1%                    | 3%                 | 3%                       | C                | C             | C          | C                |
|                              | SBL      | 110                 | -10%                  | -13%               | -13%                     | B                | B             | B          | B                |
| Roosevelt Blvd & Old York Rd | SBR      | 31                  | -16%                  | -17%               | -19%                     | B                | B             | B          | B                |
|                              | EBL      | 91                  | -5%                   | -2%                | -2%                      | C                | C             | C          | C                |
|                              | EBT      | 414                 | 4%                    | 4%                 | 4%                       | C                | C             | C          | C                |
|                              | EBR      | 39                  | 1%                    | 0%                 | 0%                       | C                | C             | C          | C                |
|                              | WBL      | 3                   | -14%                  | -                  | -100%                    | C                | D             | N/A        | A                |
|                              | WBT      | 574                 | 1%                    | 1%                 | 1%                       | C                | C             | C          | C                |
|                              | WBR      | 227                 | 2%                    | 4%                 | 4%                       | B                | A             | A          | A                |
|                              | NBL      | 105                 | 2%                    | 3%                 | 3%                       | B                | B             | B          | B                |
|                              | NBT      | 1,037               | -3%                   | -3%                | -3%                      | B                | C             | C          | C                |
|                              | NBR      | 6                   | 3%                    | 6%                 | 6%                       | A                | B             | B          | B                |
|                              | SBL      | 1                   | 29%                   | 0%                 | -14%                     | A                | A             | A          | A                |
|                              | SBT      | 575                 | 7%                    | 7%                 | 6%                       | A                | B             | B          | B                |
| Roosevelt Blvd & 9th Street  | SBR      | 31                  | -2%                   | -6%                | -7%                      | A                | B             | B          | B                |
|                              | EBL1 (I) | 8                   | 15%                   | 1%                 | 16%                      | A                | A             | A          | A                |
|                              | EBL2 (O) | 23                  | 6%                    | 12%                | 8%                       | A                | A             | A          | A                |
|                              | EBT      | 161                 | 12%                   | 29%                | 30%                      | D                | D             | D          | D                |
|                              | EBR1 (I) | 89                  | 12%                   | 12%                | 12%                      | D                | D             | D          | D                |
|                              | EBR2 (O) | 2                   | 11%                   | 33%                | 33%                      | D                | D             | D          | D                |
|                              | WBL1 (I) | 264                 | -5%                   | -4%                | -4%                      | A                | A             | A          | A                |
|                              | WBL2 (O) | 52                  | 2%                    | 6%                 | 6%                       | A                | A             | A          | A                |
|                              | WBT      | 503                 | -2%                   | -1%                | -1%                      | E                | E             | E          | E                |
|                              | WBR1 (I) | 25                  | -7%                   | -9%                | -7%                      | E                | E             | E          | E                |
|                              | WBR2 (O) | 18                  | 10%                   | 3%                 | 1%                       | D                | D             | E          | E                |
|                              | NBIL     | 112                 | 8%                    | 16%                | 16%                      | B                | B             | B          | B                |
|                              | NBIT     | 2,308               | -4%                   | -4%                | -3%                      | B                | B             | B          | B                |
|                              | NBOT     | 1,904               | 4%                    | 2%                 | 3%                       | B                | B             | B          | B                |
|                              | NBOR     | 0                   | -                     | -                  | -                        | A                | B             | A          | A                |
|                              | SBIL     | 118                 | -1%                   | -3%                | -3%                      | C                | C             | D          | D                |
|                              | SBIT     | 2,000               | 3%                    | -1%                | -2%                      | B                | B             | C          | C                |
|                              | SBOT     | 1,036               | -3%                   | 5%                 | 5%                       | B                | B             | C          | C                |
| Roosevelt Blvd & 7th Street  | SBOR     | 31                  | 5%                    | 53%                | 51%                      | B                | B             | C          | C                |
|                              | EBL1 (I) | 66                  | -13%                  | -14%               | -11%                     | A                | A             | A          | A                |
|                              | EBL2 (O) | 194                 | 51%                   | 37%                | 28%                      | A                | A             | A          | A                |
|                              | EBT      | 253                 | 12%                   | 12%                | 12%                      | D                | D             | D          | D                |
|                              | EBR1 (I) | 3                   | 11%                   | 11%                | 11%                      | C                | D             | D          | D                |
|                              | EBR2 (O) | 0                   | -100%                 | -100%              | -100%                    | A                | A             | A          | A                |
|                              | NBIT     | 2,337               | -6%                   | -3%                | -3%                      | B                | B             | B          | B                |
|                              | NBOT     | 1,965               | 3%                    | 2%                 | 3%                       | B                | B             | B          | B                |
|                              | SBIL     | 7                   | 810%                  | 440%               | 239%                     | B                | B             | C          | C                |
|                              | SBIT     | 2,114               | 2%                    | -1%                | -2%                      | B                | B             | C          | B                |
| Roosevelt Blvd & 5th Street  | SBOT     | 1,045               | -2%                   | 5%                 | 6%                       | B                | B             | B          | B                |
|                              | SBOR     | 183                 | 9%                    | 7%                 | 6%                       | A                | A             | A          | A                |
|                              | EBL      | 71                  | 145%                  | 31%                | 11%                      | B                | D             | C          | C                |
|                              | EBT      | 278                 | 3%                    | 3%                 | 3%                       | D                | D             | D          | D                |
|                              | EBR      | 91                  | 2%                    | 2%                 | 2%                       | D                | D             | D          | D                |
|                              | WBL      | 104                 | 48%                   | 21%                | 12%                      | B                | C             | D          | B                |
|                              | WBT      | 391                 | -1%                   | -9%                | -1%                      | D                | D             | D          | D                |
|                              | WBR      | 3                   | -35%                  | -64%               | -64%                     | D                | D             | D          | D                |
|                              | NBOL     | 255                 | 21%                   | 17%                | 5%                       | C                | C             | C          | C                |
|                              | NBOT     | 1,867               | 6%                    | 4%                 | 4%                       | B                | B             | B          | B                |
|                              | NBOR     | 0                   | -                     | -                  | -                        | A                | A             | A          | A                |
|                              | SBOL     | 108                 | 98%                   | 21%                | 8%                       | A                | B             | A          | A                |
|                              | SBOT     | 999                 | -7%                   | 3%                 | 5%                       | A                | A             | A          | A                |
|                              | SBOR     | 23                  | -14%                  | 10%                | -6%                      | A                | B             | A          | A                |

% >10% reduction in volume throughput  
 % >10% increase in volume throughput

X LOS degradation compared to Existing  
 X LOS improvement compared to Existing

| Intersection                    | Movement | Volumes             |                       |                    |                          | Level of Service |               |            |                  |
|---------------------------------|----------|---------------------|-----------------------|--------------------|--------------------------|------------------|---------------|------------|------------------|
|                                 |          | 2015 Existing (vph) | 2025 No Build Δ (vph) | 2025 Build Δ (vph) | 2025 Build S BAT Δ (vph) | 2015 Existing    | 2025 No Build | 2025 Build | 2025 Build S BAT |
| Roosevelt Blvd & 4th-3rd Street | EBL1 (I) | 69                  | 9%                    | -36%               | -35%                     | B                | B             | A          | A                |
|                                 | EBL2 (O) | 77                  | 23%                   | 21%                | 21%                      | A                | A             | A          | A                |
|                                 | EBT      | 245                 | 10%                   | 12%                | 12%                      | C                | D             | D          | D                |
|                                 | EBR1 (I) | 26                  | -9%                   | -10%               | -10%                     | C                | C             | D          | D                |
|                                 | EBR2 (O) | 15                  | 43%                   | 2%                 | 2%                       | C                | C             | D          | D                |
|                                 | WBL1 (I) | 41                  | -12%                  | -12%               | -12%                     | A                | A             | A          | A                |
|                                 | WBL2 (O) | 68                  | 113%                  | 4%                 | -3%                      | B                | C             | A          | A                |
|                                 | WBT      | 258                 | 9%                    | 10%                | 10%                      | D                | D             | D          | D                |
|                                 | WBR1 (I) | 13                  | -27%                  | -36%               | -31%                     | D                | D             | D          | D                |
|                                 | WBR2 (O) | 54                  | 31%                   | 31%                | 30%                      | C                | D             | C          | C                |
|                                 | NBIL1    | 213                 | 33%                   | 8%                 | 6%                       | D                | F             | D          | D                |
|                                 | NBIT     | 2,233               | -11%                  | -7%                | -6%                      | B                | B             | B          | B                |
|                                 | NBOT     | 1,881               | 12%                   | 5%                 | 4%                       | B                | A             | A          | A                |
|                                 | NBOR     | 16                  | 1%                    | 1%                 | 8%                       | B                | A             | A          | A                |
|                                 | SBIL     | 84                  | 7%                    | -39%               | -40%                     | C                | C             | B          | B                |
|                                 | SBIT     | 2,084               | 5%                    | 0%                 | -2%                      | B                | B             | C          | C                |
|                                 | SBOT     | 1,051               | -5%                   | 5%                 | 5%                       | B                | B             | C          | C                |
|                                 | SBOR     | 5                   | 46%                   | 53%                | 46%                      | B                | C             | C          | C                |
| Roosevelt Blvd & 2nd St Ped     | WBR      | 23                  | -5%                   | 2%                 | 2%                       | A                | A             | A          | A                |
|                                 | NBIT     | 2,676               | -11%                  | -11%               | -9%                      | A                | A             | A          | A                |
|                                 | NBOT     | 1,649               | 19%                   | 14%                | 11%                      | A                | A             | A          | A                |
|                                 | SBIT     | 2,217               | 2%                    | -3%                | -2%                      | A                | A             | A          | A                |
|                                 | SBOT     | 1,144               | 2%                    | 9%                 | 4%                       | A                | A             | A          | A                |
| Roosevelt Blvd & Mascher St     | EBL1 (I) | 84                  | -6%                   | 2%                 | 8%                       | A                | A             | A          | A                |
|                                 | EBL2 (O) | 114                 | 8%                    | -23%               | -6%                      | B                | B             | A          | B                |
|                                 | EBT      | 582                 | 2%                    | 2%                 | 2%                       | D                | D             | D          | E                |
|                                 | EBR1 (I) | 183                 | -5%                   | -5%                | -6%                      | D                | D             | E          | E                |
|                                 | EBR2 (O) | 8                   | -1%                   | -1%                | 13%                      | D                | D             | D          | E                |
|                                 | NBIT     | 2,666               | -11%                  | -10%               | -9%                      | A                | B             | A          | A                |
|                                 | NBOT     | 1,539               | 20%                   | 16%                | 13%                      | A                | A             | A          | A                |
|                                 | NBOR     | 76                  | -2%                   | 85%                | 88%                      | A                | B             | A          | A                |
|                                 | SBIL     | 71                  | -5%                   | -42%               | -8%                      | C                | C             | B          | C                |
|                                 | SBIT     | 2,033               | 3%                    | -3%                | -2%                      | A                | B             | A          | A                |
| Roosevelt Blvd & Front St       | SBOT     | 1,153               | 2%                    | 9%                 | 4%                       | A                | A             | A          | A                |
|                                 | WBL1     | 63                  | -4%                   | -4%                | -4%                      | A                | A             | A          | A                |
|                                 | WBL2     | 64                  | 13%                   | 20%                | 19%                      | A                | A             | A          | A                |
|                                 | WBT      | 631                 | 2%                    | 19%                | 19%                      | A                | A             | A          | A                |
|                                 | WBR1     | 14                  | 2%                    | 5%                 | 5%                       | C                | C             | D          | D                |
|                                 | WBR2     | 4                   | 25%                   | 20%                | 18%                      | C                | C             | D          | D                |
|                                 | NBIL1    | 207                 | 2%                    | 55%                | 55%                      | B                | C             | B          | B                |
|                                 | NBIT     | 2,523               | -11%                  | -15%               | -13%                     | A                | C             | A          | A                |
|                                 | NBOT     | 1,646               | 19%                   | 13%                | 12%                      | A                | A             | A          | A                |
|                                 | SBIT     | 1,891               | 1%                    | -1%                | 0%                       | A                | B             | B          | B                |
|                                 | SBOT     | 1,249               | 4%                    | 1%                 | -2%                      | A                | B             | B          | B                |
| Roosevelt Blvd & Rising Sun Ave | SBOR     | 51                  | 5%                    | 4%                 | 3%                       | A                | B             | B          | B                |
|                                 | EBL1 (I) | 22                  | 35%                   | 93%                | 273%                     | B                | B             | D          | E                |
|                                 | EBL2 (O) | 18                  | -3%                   | 39%                | 3%                       | B                | B             | C          | C                |
|                                 | EBT      | 175                 | 1%                    | 2%                 | 2%                       | D                | D             | D          | D                |
|                                 | EBR1 (I) | 145                 | -4%                   | -5%                | -4%                      | D                | D             | D          | D                |
|                                 | EBR2 (O) | 51                  | 8%                    | 11%                | 11%                      | D                | D             | D          | D                |
|                                 | WBL1 (I) | 17                  | -5%                   | -7%                | -9%                      | A                | A             | A          | A                |
|                                 | WBL2 (O) | 38                  | 12%                   | -56%               | -56%                     | C                | C             | A          | A                |
|                                 | WBT      | 352                 | 5%                    | 5%                 | 5%                       | C                | C             | C          | C                |
|                                 | WBR1 (I) | 112                 | 1%                    | -1%                | 1%                       | C                | C             | C          | C                |
|                                 | WBR2 (O) | 52                  | -10%                  | -10%               | -14%                     | C                | C             | C          | C                |
|                                 | NBIL1    | 231                 | 6%                    | -                  | -                        | E                | E             | N/A        | N/A              |
|                                 | NBIT     | 2,291               | -13%                  | -5%                | -3%                      | A                | A             | A          | A                |
|                                 | NBOT     | 1,554               | 20%                   | 16%                | 13%                      | A                | A             | A          | A                |
|                                 | SBIL     | 134                 | 7%                    | 42%                | 46%                      | B                | B             | E          | F                |
|                                 | SBIT     | 1,732               | 1%                    | -1%                | 0%                       | A                | B             | D          | D                |
|                                 | SBOT     | 1,216               | 3%                    | 2%                 | -1%                      | A                | B             | D          | D                |
|                                 | SBOR     | 43                  | 4%                    | 298%               | 297%                     | A                | B             | B          | B                |

% >10% reduction in volume throughput  
 % >10% increase in volume throughput

X LOS degradation compared to Existing  
 X LOS improvement compared to Existing

| Intersection                                       | Movement  | Volumes             |                       |                    |                          | Level of Service |               |            |                  |
|--|-----------|---------------------|-----------------------|--------------------|--------------------------|------------------|---------------|------------|------------------|
|  |           | 2015 Existing (vph) | 2025 No Build Δ (vph) | 2025 Build Δ (vph) | 2025 Build S BAT Δ (vph) | 2015 Existing    | 2025 No Build | 2025 Build | 2025 Build S BAT |
| Roosevelt Blvd & B St<br>Michigan U-Turn           | WBR       | -                   | -                     | -                  | -                        | N/A              | N/A           | A          | A                |
|  | NBIU1 (I) | -                   | -                     | -                  | -                        | N/A              | N/A           | A          | D                |
|  | NBIU2 (O) | -                   | -                     | -                  | -                        | N/A              | N/A           | D          | D                |
|  | NBIT      | -                   | -                     | -                  | -                        | N/A              | N/A           | B          | B                |
|  | NBOT      | -                   | -                     | -                  | -                        | N/A              | N/A           | B          | B                |
|  | NBOR      | -                   | -                     | -                  | -                        | N/A              | N/A           | A          | A                |
|  | SBIT      | -                   | -                     | -                  | -                        | N/A              | N/A           | A          | A                |
| Roosevelt Blvd & C Street                          | EBL1 (I)  | 69                  | 4%                    | 14%                | 21%                      | B                | B             | B          | B                |
|  | EBL2 (O)  | 138                 | 14%                   | 12%                | 14%                      | B                | B             | B          | B                |
|  | EBT       | 368                 | 3%                    | 4%                 | 3%                       | D                | D             | E          | E                |
|  | EBR1 (I)  | 28                  | -8%                   | -9%                | -8%                      | D                | D             | D          | D                |
|  | EBR2 (O)  | 19                  | -5%                   | 2%                 | 1%                       | D                | D             | D          | D                |
|  | WBL1 (I)  | 37                  | -13%                  | -11%               | -12%                     | A                | A             | A          | A                |
|  | WBL2 (O)  | 33                  | 23%                   | 4%                 | 5%                       | A                | B             | A          | A                |
|  | WBT       | 274                 | -1%                   | -1%                | -1%                      | D                | D             | E          | E                |
|  | WBR1 (I)  | 56                  | 7%                    | 4%                 | 5%                       | D                | E             | F          | F                |
|  | WBR2 (O)  | 20                  | 14%                   | 19%                | 14%                      | D                | E             | E          | E                |
|  | NBIL1     | 51                  | 10%                   | -12%               | -12%                     | B                | B             | C          | B                |
|  | NBIT      | 2,362               | -12%                  | -10%               | -8%                      | B                | B             | B          | B                |
|  | NBOT      | 1,591               | 19%                   | 16%                | 13%                      | B                | B             | C          | B                |
|  | NBOR      | 51                  | -9%                   | -9%                | -8%                      | B                | A             | B          | B                |
|  | SBIL      | 165                 | 2%                    | 4%                 | 8%                       | C                | C             | D          | E                |
|  | SBIT      | 1,805               | 2%                    | 1%                 | 3%                       | B                | B             | C          | C                |
|  | SBOT      | 1,178               | 5%                    | 7%                 | 0%                       | B                | B             | C          | C                |
|  | SBOR      | 155                 | 6%                    | 9%                 | 9%                       | B                | B             | C          | C                |
| Roosevelt Blvd & Rorer St - D St                   | WBR       | 39                  | -3%                   | 1%                 | 1%                       | A                | A             | A          | A                |
|  | NBIT      | 2,501               | -12%                  | -10%               | -7%                      | A                | A             | A          | A                |
|  | NBOT      | 1,756               | 18%                   | 15%                | 12%                      | A                | A             | A          | A                |
|  | NBOR      | 5                   | -19%                  | -13%               | -13%                     | B                | A             | A          | B                |
|  | SBIT      | 1,955               | 3%                    | 2%                 | 5%                       | B                | A             | A          | A                |
|  | SBOT      | 1,135               | 6%                    | 8%                 | 1%                       | A                | A             | A          | A                |
| Roosevelt Blvd & F Street                          | EBL1 (I)  | 76                  | 56%                   | 73%                | 98%                      | B                | C             | D          | D                |
|  | EBL2 (O)  | 83                  | 68%                   | 34%                | -6%                      | A                | C             | B          | B                |
|  | EBL3      | 21                  | -100%                 | -94%               | 0%                       | B                | A             | D          | A                |
|  | EBT       | 343                 | 4%                    | 4%                 | 1%                       | D                | E             | F          | F                |
|  | EBR1 (I)  | 106                 | -7%                   | -9%                | -11%                     | D                | E             | F          | F                |
|  | EBR2 (O)  | 3                   | 15%                   | 6%                 | 6%                       | D                | E             | F          | F                |
|  | WBL1 (I)  | 26                  | 7%                    | 14%                | 12%                      | A                | A             | A          | A                |
|  | WBL2 (O)  | 51                  | 25%                   | 38%                | 50%                      | B                | B             | B          | B                |
|  | WBT       | 322                 | 16%                   | 16%                | 16%                      | E                | E             | D          | D                |
|  | WBR1 (I)  | 8                   | -10%                  | -9%                | -8%                      | E                | E             | D          | D                |
|  | WBR2 (O)  | 10                  | 29%                   | 34%                | 33%                      | E                | E             | D          | D                |
|  | NBIL1     | 291                 | -17%                  | -9%                | -8%                      | F                | F             | E          | E                |
|  | NBIT      | 2,204               | -10%                  | -8%                | -7%                      | A                | B             | A          | A                |
|  | NBOT      | 1,710               | 15%                   | 16%                | 13%                      | A                | B             | A          | A                |
|  | NBOBR     | 21                  | -100%                 | -100%              | 3%                       | A                | A             | A          | C                |
|  | NBOR      | 35                  | 5%                    | 13%                | 14%                      | A                | B             | A          | A                |
|  | SBIL      | 125                 | 67%                   | 56%                | 60%                      | B                | D             | E          | F                |
|  | SBIT      | 1,852               | 9%                    | 5%                 | 12%                      | B                | B             | D          | D                |
|  | SBOT      | 1,130               | 0%                    | 9%                 | -6%                      | B                | B             | D          | D                |
|  | SBOR      | 63                  | -2%                   | -6%                | -7%                      | B                | B             | C          | C                |
| Roosevelt Blvd & Whitaker Ave (South) - Garland St | EBR       | 19                  | 0%                    | -2%                | -1%                      | A                | A             | A          | A                |
|  | WBR1 (I)  | 492                 | -9%                   | 3%                 | 4%                       | D                | F             | D          | D                |
|  | WBR2 (O)  | 129                 | -12%                  | -11%               | -16%                     | D                | E             | D          | D                |
|  | NBIT      | 2,306               | -9%                   | -6%                | -4%                      | B                | B             | A          | A                |
|  | NBOT      | 1,794               | 9%                    | 14%                | 13%                      | B                | C             | A          | A                |
|  | NBOR      | 20                  | 497%                  | 306%               | -2%                      | B                | C             | A          | A                |
|  | SBU1 (I)  | 3                   | -100%                 | -100%              | -100%                    | F                | A             | A          | A                |
|  | SBU2 (O)  | 4                   | -21%                  | -100%              | -7%                      | C                | C             | A          | C                |
|  | SBL       | 438                 | -14%                  | -2%                | 3%                       | D                | D             | D          | D                |
|  | SBIT      | 1,817               | 14%                   | 9%                 | 18%                      | A                | A             | A          | A                |
|  | SBOT      | 1,177               | 0%                    | 8%                 | -6%                      | A                | A             | A          | A                |
|  | SBOR      | 2                   | -50%                  | -44%               | -38%                     | A                | A             | A          | A                |

% >10% reduction in volume throughput  
 % >10% increase in volume throughput

X LOS degradation compared to Existing  
 X LOS improvement compared to Existing

| Intersection                                      | Movement  | Volumes             |                       |                    |                          | Level of Service |               |            |                  |
|---|-----------|---------------------|-----------------------|--------------------|--------------------------|------------------|---------------|------------|------------------|
|   |           | 2015 Existing (vph) | 2025 No Build Δ (vph) | 2025 Build Δ (vph) | 2025 Build S BAT Δ (vph) | 2015 Existing    | 2025 No Build | 2025 Build | 2025 Build S BAT |
| Roosevelt Blvd & Whitaker Ave (North) - Adams Ave | EBL1 (I)  | 179                 | 2%                    | -96%               | -93%                     | A                | B             | A          | A                |
|   | EBL2 (O)  | 514                 | -10%                  | -17%               | -17%                     | A                | A             | A          | A                |
|   | EBR1 (I)  | 145                 | 8%                    | 157%               | 151%                     | D                | E             | D          | D                |
|   | EBR2 (O)  | 13                  | 34%                   | 181%               | 218%                     | D                | D             | C          | C                |
|   | NBIU1 (I) | 0                   | -100%                 | -100%              | -100%                    | B                | A             | A          | A                |
|   | NBIU2 (O) | 1                   | -83%                  | -83%               | -83%                     | C                | A             | A          | A                |
|   | NBIL      | 358                 | 10%                   | 9%                 | 16%                      | C                | C             | C          | B                |
|   | NBIT      | 2,448               | -13%                  | -7%                | -6%                      | A                | B             | B          | B                |
|   | NBOT      | 1,919               | 7%                    | 13%                | 11%                      | A                | B             | B          | C                |
|   | SBIT      | 2,141               | 7%                    | -5%                | 5%                       | B                | C             | C          | C                |
| Roosevelt Blvd & Tower Blvd                       | SBOT      | 1,299               | 2%                    | 8%                 | -6%                      | B                | C             | B          | B                |
|   | SBOR      | 678                 | -22%                  | -16%               | -20%                     | B                | C             | C          | C                |
|   | EBR       | 160                 | 3%                    | 4%                 | 4%                       | B                | B             | B          | B                |
|   | NBIU1 (I) | 122                 | -12%                  | -99%               | -99%                     | F                | C             | D          | D                |
|   | NBIU2 (O) | 19                  | -12%                  | -89%               | -89%                     | F                | D             | D          | D                |
|   | NBIL      | 180                 | 11%                   | 19%                | 19%                      | C                | D             | D          | D                |
|   | NBIT      | -                   | -                     | -                  | -                        | N/A              | N/A           | A          | A                |
|   | NBOT      | -                   | -                     | -                  | -                        | N/A              | N/A           | A          | C                |
|   | SBIU1 (I) | -                   | -                     | -                  | -                        | N/A              | N/A           | C          | C                |
|   | SBIU1 (O) | -                   | -                     | -                  | -                        | N/A              | N/A           | C          | C                |
| Roosevelt Blvd & Langdon St                       | SBIT      | 2,008               | 9%                    | 2%                 | 12%                      | A                | A             | A          | A                |
|   | SBOT      | 1,790               | -6%                   | 1%                 | -11%                     | A                | A             | A          | A                |
|   | SBOR      | 116                 | -21%                  | -20%               | -20%                     | A                | A             | A          | A                |
|   | EBL1 (I)  | 146                 | -8%                   | 24%                | 11%                      | A                | B             | A          | A                |
|   | EBL2 (O)  | 231                 | -12%                  | 8%                 | 14%                      | A                | A             | A          | A                |
|   | EBT       | 385                 | -12%                  | 13%                | 12%                      | F                | F             | F          | F                |
|   | EBR1 (I)  | 46                  | 0%                    | 34%                | 22%                      | F                | F             | F          | F                |
|   | EBR2 (O)  | 1                   | 8%                    | 125%               | 208%                     | D                | F             | F          | F                |
|   | WBL1 (I)  | 36                  | -3%                   | -7%                | -16%                     | B                | B             | B          | B                |
|   | WBL2 (O)  | 35                  | -4%                   | -3%                | 5%                       | B                | B             | B          | B                |
| Roosevelt Blvd & Summerdale Ave - Adams Ave       | WBT       | 85                  | -8%                   | -8%                | -8%                      | D                | D             | D          | D                |
|   | WBR1 (I)  | 26                  | -16%                  | -1%                | -17%                     | E                | D             | D          | D                |
|   | WBR2 (O)  | 24                  | -17%                  | -32%               | -14%                     | E                | D             | D          | D                |
|   | NBLU1 (I) | 1                   | 5680%                 | -80%               | -80%                     | C                | E             | A          | A                |
|   | NBLU2 (O) | 0                   | -                     | -                  | -                        | A                | E             | F          | F                |
|   | NBL       | 54                  | -10%                  | 11%                | 69%                      | E                | E             | D          | E                |
|   | NBIT      | 2,274               | -19%                  | -12%               | -10%                     | C                | E             | A          | A                |
|   | NBOT      | 2,298               | 7%                    | 16%                | 14%                      | D                | C             | B          | B                |
|   | NBOR      | 10                  | -14%                  | 46%                | 45%                      | E                | C             | C          | B                |
|   | SBLU1 (I) | 25                  | 36%                   | -                  | -                        | E                | F             | N/A        | N/A              |
|   | SBLU2 (O) | 0                   | -                     | -                  | -                        | A                | A             | N/A        | N/A              |
|   | SBL       | 7                   | -25%                  | -                  | -                        | E                | E             | N/A        | N/A              |
|   | SBIT      | 1,912               | 9%                    | 8%                 | 22%                      | B                | A             | A          | A                |
|   | SBOT      | 1,827               | -5%                   | 1%                 | -12%                     | C                | B             | C          | C                |
|   | SBOR      | 327                 | 6%                    | 7%                 | -3%                      | C                | A             | B          | B                |
|   | EBL1 (I)  | 3                   | 38%                   | 27%                | 19%                      | A                | A             | A          | A                |
|   | EBL2 (O)  | 4                   | 65%                   | 93%                | 98%                      | A                | A             | A          | A                |
|   | EBT       | 186                 | 19%                   | 20%                | 20%                      | D                | C             | C          | C                |
|   | EBR1 (I)  | 164                 | -19%                  | -20%               | -29%                     | D                | C             | C          | C                |
|   | EBR2 (O)  | 295                 | -17%                  | -17%               | -12%                     | F                | D             | C          | C                |
|   | WBL1 (I)  | 0                   | -                     | -                  | -                        | A                | A             | A          | A                |
|   | WBL2 (O)  | 3                   | 2257%                 | 14383%             | 14403%                   | A                | A             | A          | B                |
|   | WBT       | 475                 | -54%                  | -55%               | -55%                     | E                | D             | D          | D                |
|   | WBR1 (I)  | 19                  | -41%                  | -41%               | -41%                     | E                | E             | D          | E                |
|   | WBR2 (O)  | 7                   | -38%                  | -31%               | -31%                     | E                | D             | D          | D                |
|   | NBLU1 (I) | 0                   | -                     | -                  | -                        | A                | A             | N/A        | N/A              |
|   | NBLU2 (O) | 4                   | -66%                  | -                  | -                        | F                | F             | N/A        | N/A              |
|   | NBL       | 383                 | -18%                  | -                  | -                        | E                | F             | N/A        | N/A              |
|   | NBIT      | 2,102               | -19%                  | 5%                 | 5%                       | C                | C             | A          | A                |
|   | NBOT      | 2,193               | 6%                    | 10%                | 10%                      | C                | C             | B          | B                |
|   | NBOR      | 395                 | -6%                   | 28%                | 27%                      | C                | C             | B          | B                |
|   | SBLU1 (I) | 0                   | 0%                    | -                  | -                        | B                | A             | N/A        | N/A              |
|   | SBLU2 (O) | 2                   | 19%                   | -                  | -                        | C                | E             | N/A        | N/A              |
|   | SBL       | 107                 | -13%                  | -                  | -                        | D                | F             | N/A        | N/A              |
|   | SBIT      | 1,733               | 15%                   | 12%                | 28%                      | C                | A             | A          | A                |
|   | SBOT      | 1,502               | 22%                   | 30%                | 12%                      | C                | A             | A          | A                |
|   | SBOR      | 40                  | 71%                   | 1071%              | 1072%                    | A                | A             | A          | A                |

% >10% reduction in volume throughput  
 % >10% increase in volume throughput

X LOS degradation compared to Existing  
 X LOS improvement compared to Existing

| Intersection                                       | Movement  | Volumes             |                       |                    |                          | Level of Service |               |            |                  |
|--|-----------|---------------------|-----------------------|--------------------|--------------------------|------------------|---------------|------------|------------------|
|  |           | 2015 Existing (vph) | 2025 No Build Δ (vph) | 2025 Build Δ (vph) | 2025 Build S BAT Δ (vph) | 2015 Existing    | 2025 No Build | 2025 Build | 2025 Build S BAT |
| Roosevelt Blvd & Allengrove St Michigan U-turn     | WBR       | -                   | -                     | -                  | -                        | N/A              | N/A           | A          | A                |
|  | NBIU1 (I) | -                   | -                     | -                  | -                        | N/A              | N/A           | A          | C                |
|  | NBIU2 (O) | -                   | -                     | -                  | -                        | N/A              | N/A           | D          | E                |
|  | NBIT      | -                   | -                     | -                  | -                        | N/A              | N/A           | A          | A                |
|  | NBOT      | -                   | -                     | -                  | -                        | N/A              | N/A           | A          | A                |
|  | SBIT      | -                   | -                     | -                  | -                        | N/A              | N/A           | A          | A                |
|  | SBOT      | -                   | -                     | -                  | -                        | N/A              | N/A           | A          | A                |
| Roosevelt Blvd & Pratt Street                      | EBL1 (I)  | 10                  | -2%                   | -68%               | -66%                     | C                | B             | A          | A                |
|  | EBL2 (O)  | 19                  | -48%                  | -25%               | -26%                     | B                | A             | B          | B                |
|  | EBT       | 73                  | 7%                    | 7%                 | 7%                       | C                | C             | D          | D                |
|  | EBR1 (I)  | 10                  | 11%                   | 16%                | 47%                      | C                | C             | D          | D                |
|  | EBR2 (O)  | 19                  | 31%                   | 29%                | 12%                      | C                | C             | D          | D                |
|  | WBL1 (I)  | 60                  | 26%                   | 22%                | 84%                      | A                | A             | A          | A                |
|  | WBL2 (O)  | 94                  | 39%                   | 9%                 | -31%                     | A                | A             | A          | A                |
|  | WBT       | 319                 | -6%                   | -17%               | -19%                     | E                | D             | D          | D                |
|  | WBR1 (I)  | 121                 | -26%                  | 44%                | 39%                      | E                | D             | D          | D                |
|  | WBR2 (O)  | 0                   | -                     | -                  | -                        | A                | D             | D          | C                |
|  | NBIL1     | 1                   | 200%                  | 16300%             | 16380%                   | A                | A             | C          | C                |
|  | NBIT      | 2,124               | -15%                  | -11%               | -11%                     | B                | B             | A          | A                |
|  | NBOT      | 2,200               | 3%                    | 7%                 | 7%                       | B                | B             | B          | B                |
|  | NBOR      | 151                 | -2%                   | 2%                 | -8%                      | B                | B             | A          | B                |
|  | SBIL      | 195                 | -61%                  | -65%               | -66%                     | C                | B             | B          | B                |
|  | SBIT      | 1,767               | 9%                    | 2%                 | 15%                      | B                | A             | B          | B                |
|  | SBOT      | 1,309               | -5%                   | 8%                 | -9%                      | B                | B             | B          | B                |
|  | SBOR      | 23                  | 285%                  | -33%               | -4%                      | B                | B             | A          | A                |
| Roosevelt Blvd & Bridge Street                     | EBL1 (I)  | 13                  | -29%                  | -34%               | -35%                     | A                | A             | A          | A                |
|  | EBL2 (O)  | 36                  | 80%                   | 29%                | 27%                      | A                | C             | C          | B                |
|  | EBT       | 135                 | 6%                    | 7%                 | 7%                       | C                | D             | D          | D                |
|  | EBR1 (I)  | 41                  | 27%                   | 30%                | 35%                      | C                | D             | D          | D                |
|  | EBR2 (O)  | 22                  | 26%                   | 29%                | 18%                      | C                | D             | D          | D                |
|  | WBL1 (I)  | 42                  | -65%                  | -88%               | -76%                     | B                | A             | A          | A                |
|  | WBL2 (O)  | 55                  | 123%                  | -50%               | -60%                     | A                | C             | A          | A                |
|  | WBT       | 170                 | 14%                   | -20%               | -19%                     | D                | C             | C          | C                |
|  | WBR1 (I)  | 86                  | 12%                   | -43%               | -38%                     | C                | C             | C          | C                |
|  | WBR2 (O)  | 0                   | -                     | -                  | -                        | A                | A             | A          | A                |
|  | NBIL1     | 172                 | 13%                   | -10%               | -11%                     | D                | F             | E          | E                |
|  | NBIT      | 2,086               | -18%                  | -9%                | -8%                      | B                | B             | A          | A                |
|  | NBOT      | 2,099               | 7%                    | 11%                | 10%                      | A                | A             | A          | A                |
|  | NBOR      | 125                 | -71%                  | -59%               | -56%                     | A                | A             | A          | A                |
|  | SBIL      | 10                  | 973%                  | 1211%              | 1186%                    | A                | B             | C          | C                |
|  | SBIT      | 1,834               | 4%                    | -3%                | 9%                       | A                | A             | C          | C                |
|  | SBOT      | 1,304               | -7%                   | 8%                 | -8%                      | B                | B             | B          | B                |
|  | SBOR      | 18                  | -14%                  | -8%                | -5%                      | B                | B             | B          | B                |
| Roosevelt Blvd & Sanger St Ped                     | NBOT      | 2,141               | 8%                    | 11%                | 10%                      | A                | B             | B          | B                |
|  | SBOT      | 1,288               | -8%                   | 8%                 | -8%                      | A                | A             | A          | A                |
|  | SBOR      | 3                   | 24%                   | 27%                | 30%                      | A                | A             | A          | A                |
| Roosevelt Blvd NB & Oxford Circle & Oxford Ave     | EBL       | 84                  | 67%                   | 39%                | 44%                      | A                | B             | B          | B                |
|  | EBT       | 0                   | -                     | -                  | -                        | A                | A             | A          | A                |
|  | EBR       | 381                 | 14%                   | 5%                 | 6%                       | A                | A             | A          | A                |
|  | WBR       | 393                 | 9%                    | 20%                | 22%                      | A                | B             | B          | B                |
|  | NBOT      | 2,103               | 4%                    | 8%                 | 7%                       | C                | C             | B          | B                |
|  | NBOR      | 105                 | 59%                   | 49%                | 48%                      | C                | C             | B          | B                |
| Roosevelt Blvd NB & Oxford Circle & Cheltenham Ave | NBOHR     | 0                   | -                     | -                  | -                        | A                | A             | A          | B                |
|  | WBR       | 124                 | -43%                  | 0%                 | -2%                      | F                | F             | F          | F                |
|  | NBOL      | 343                 | 15%                   | 14%                | 15%                      | A                | A             | A          | A                |
|  | NBOT      | 1,843               | 6%                    | 9%                 | 7%                       | A                | A             | A          | A                |
|  | NBT       | 390                 | 8%                    | 20%                | 22%                      | D                | E             | C          | C                |
| Roosevelt Blvd SB & Oxford Circle                  | NBR       | 331                 | -3%                   | 0%                 | -1%                      | A                | A             | A          | A                |
|  | SBOL      | 56                  | 173%                  | 104%               | 116%                     | A                | A             | A          | A                |
|  | SBOT      | 1,017               | -13%                  | 10%                | -10%                     | A                | A             | A          | A                |
|  | SBT       | 562                 | -2%                   | -1%                | -2%                      | D                | D             | D          | C                |
|  | SBR       | 274                 | 8%                    | 1%                 | 0%                       | B                | C             | B          | B                |

% >10% reduction in volume throughput  
 % >10% increase in volume throughput

X LOS degradation compared to Existing  
 X LOS improvement compared to Existing

| Intersection                                   | Movement | Volumes             |                       |                    |                          | Level of Service |               |            |                  |
|--|----------|---------------------|-----------------------|--------------------|--------------------------|------------------|---------------|------------|------------------|
|  |          | 2015 Existing (vph) | 2025 No Build Δ (vph) | 2025 Build Δ (vph) | 2025 Build S BAT Δ (vph) | 2015 Existing    | 2025 No Build | 2025 Build | 2025 Build S BAT |
| Roosevelt Blvd SB & Oxford Circle & Castor Ave | EBR      | 367                 | 11%                   | 5%                 | 4%                       | B                | B             | B          | B                |
|  | WBL      | 94                  | -10%                  | 66%                | 79%                      | A                | A             | A          | A                |
|  | WBT      | 295                 | 3%                    | 5%                 | 4%                       | B                | B             | B          | B                |
|  | WBR      | 467                 | 6%                    | 11%                | 11%                      | B                | B             | B          | B                |
|  | SBOT     | 980                 | -2%                   | 10%                | -12%                     | B                | D             | B          | B                |
|  | SBOR     | 75                  | -35%                  | -20%               | -18%                     | B                | D             | B          | B                |
|  | SBOHR    | 17                  | -25%                  | -29%               | -27%                     | B                | C             | B          | B                |
| Roosevelt Blvd & Large Street                  | EBL1 (I) | 8                   | 486%                  | -75%               | -79%                     | C                | C             | D          | D                |
|  | EBL2 (O) | 96                  | 3%                    | -53%               | -52%                     | C                | C             | A          | A                |
|  | EBT      | 192                 | 21%                   | 20%                | 20%                      | C                | D             | D          | D                |
|  | EBR1 (I) | 61                  | 27%                   | 28%                | 29%                      | C                | D             | D          | D                |
|  | EBR2 (O) | 21                  | -8%                   | -3%                | -8%                      | C                | C             | D          | D                |
|  | WBL1 (I) | 16                  | 13%                   | 12%                | 19%                      | A                | A             | A          | A                |
|  | WBL2 (O) | 16                  | -4%                   | -6%                | -12%                     | A                | A             | A          | A                |
|  | WBT      | 207                 | -8%                   | -8%                | -8%                      | C                | C             | C          | C                |
|  | WBR1 (I) | 45                  | -11%                  | -6%                | -6%                      | B                | C             | B          | B                |
|  | WBR2 (O) | 66                  | 0%                    | -3%                | -3%                      | B                | B             | B          | B                |
|  | NBIL1    | 282                 | 3%                    | -1%                | -2%                      | F                | F             | F          | F                |
|  | NBIT     | 1,899               | -20%                  | -12%               | -11%                     | A                | A             | C          | C                |
|  | NBOT     | 1,854               | 6%                    | 9%                 | 8%                       | A                | A             | A          | A                |
|  | SBIL     | 176                 | 19%                   | -37%               | -37%                     | B                | B             | D          | D                |
|  | SBIT     | 1,770               | 8%                    | 2%                 | 15%                      | A                | B             | C          | C                |
|  | SBOT     | 1,037               | -4%                   | 5%                 | -16%                     | A                | B             | C          | C                |
|  | SBOR     | 48                  | 24%                   | 67%                | 87%                      | A                | A             | B          | A                |
| Roosevelt Blvd & Devereaux Street              | EBL1 (I) | 219                 | 4%                    | 6%                 | 5%                       | A                | A             | A          | A                |
|  | EBL2 (O) | 56                  | -18%                  | -67%               | -68%                     | C                | C             | A          | A                |
|  | EBT      | 530                 | 3%                    | 3%                 | 3%                       | D                | D             | D          | D                |
|  | EBR1 (I) | 7                   | 9%                    | 15%                | 42%                      | D                | D             | D          | D                |
|  | EBR2 (O) | 8                   | 21%                   | 24%                | 0%                       | C                | D             | D          | C                |
|  | WBL1 (I) | 128                 | -33%                  | -39%               | -14%                     | C                | B             | B          | C                |
|  | WBL2 (O) | 60                  | 58%                   | 94%                | 60%                      | C                | C             | B          | C                |
|  | WBT      | 310                 | 6%                    | 28%                | 28%                      | C                | D             | D          | D                |
|  | WBR1 (I) | 0                   | -                     | -                  | -                        | A                | A             | D          | D                |
|  | NBIL1    | 78                  | -17%                  | 8%                 | 25%                      | C                | C             | B          | B                |
|  | NBIT     | 1,873               | -17%                  | -14%               | -13%                     | A                | A             | A          | A                |
|  | NBOT     | 1,890               | 0%                    | 4%                 | 3%                       | B                | A             | A          | A                |
|  | NBOR     | 283                 | 33%                   | 9%                 | 11%                      | B                | B             | B          | B                |
|  | SBIL     | 42                  | -21%                  | -55%               | -60%                     | B                | B             | B          | B                |
|  | SBIT     | 1,809               | 12%                   | 3%                 | 13%                      | A                | A             | B          | B                |
|  | SBOT     | 1,008               | -7%                   | 0%                 | -19%                     | A                | A             | B          | B                |
|  | SBOR     | 60                  | -32%                  | -12%               | -11%                     | A                | A             | B          | B                |
|  | SBOHR    | 100                 | -21%                  | -                  | -                        | A                | A             | N/A        | N/A              |
|  | SEBR     | 0                   | -                     | -                  | -                        | A                | A             | N/A        | N/A              |
| Roosevelt Blvd & Bustleton Ave                 | EBL1 (I) | 6                   | -47%                  | -35%               | -38%                     | C                | B             | D          | C                |
|  | EBL2 (O) | 69                  | -86%                  | -71%               | -71%                     | C                | A             | C          | C                |
|  | EBT      | 427                 | -7%                   | -7%                | -7%                      | A                | A             | A          | A                |
|  | EBR1 (I) | 151                 | 10%                   | 8%                 | 16%                      | A                | A             | A          | A                |
|  | EBR2 (O) | 59                  | 23%                   | 25%                | 6%                       | A                | A             | A          | A                |
|  | WBL1 (I) | 0                   | -                     | -                  | -                        | A                | A             | A          | A                |
|  | WBL2 (O) | 99                  | -22%                  | -96%               | -94%                     | C                | C             | B          | B                |
|  | WBT      | 437                 | 7%                    | -5%                | -5%                      | A                | A             | A          | A                |
|  | WBR1 (I) | 56                  | -28%                  | -37%               | -38%                     | A                | A             | A          | A                |
|  | WBR2 (O) | 171                 | -51%                  | -57%               | -57%                     | A                | A             | A          | A                |
|  | NBIL1    | 309                 | 18%                   | -4%                | -5%                      | E                | F             | B          | C                |
|  | NBIT     | 1,610               | -23%                  | -17%               | -16%                     | C                | C             | A          | A                |
|  | NBOT     | 1,606               | -4%                   | -5%                | -7%                      | B                | B             | A          | A                |
|  | SBIL     | 273                 | -41%                  | -39%               | -40%                     | E                | C             | D          | E                |
|  | SBIT     | 1,700               | 12%                   | 1%                 | 11%                      | B                | B             | B          | B                |
|  | SBOT     | 988                 | -9%                   | -3%                | -20%                     | A                | A             | A          | A                |
| Bustleton Ave & Robbins Street                 | EBL      | 161                 | -5%                   | -46%               | -46%                     | B                | A             | A          | A                |
|  | EBT      | 462                 | -15%                  | -2%                | -3%                      | A                | A             | A          | A                |
|  | WBT      | 664                 | -11%                  | -21%               | -21%                     | C                | B             | D          | D                |
|  | WBR      | 33                  | -10%                  | -19%               | -19%                     | C                | B             | D          | D                |
|  | NBL      | 0                   | -                     | -                  | -                        | A                | A             | N/A        | N/A              |
|  | NBT      | 505                 | 15%                   | 33%                | 32%                      | B                | A             | A          | A                |

% >10% reduction in volume throughput  
 % >10% increase in volume throughput

X LOS degradation compared to Existing  
 X LOS improvement compared to Existing

| Intersection                       | Movement | Volumes             |                       |                    |                          | Level of Service |               |            |                  |
|------------------------------------|----------|---------------------|-----------------------|--------------------|--------------------------|------------------|---------------|------------|------------------|
|                                    |          | 2015 Existing (vph) | 2025 No Build Δ (vph) | 2025 Build Δ (vph) | 2025 Build S BAT Δ (vph) | 2015 Existing    | 2025 No Build | 2025 Build | 2025 Build S BAT |
| Bustleton Ave & Levick Street      | EBT      | 609                 | 4%                    | 2%                 | 2%                       | C                | C             | E          | E                |
|                                    | EBR      | 40                  | -5%                   | -4%                | -5%                      | C                | C             | E          | F                |
|                                    | WBL      | 90                  | 7%                    | -                  | -                        | A                | A             | N/A        | N/A              |
|                                    | WBT      | 556                 | 18%                   | 27%                | 26%                      | A                | A             | A          | A                |
|                                    | SBL      | 28                  | -100%                 | -                  | -                        | A                | A             | N/A        | N/A              |
|                                    | SBT      | 415                 | -6%                   | 17%                | 17%                      | A                | A             | A          | A                |
| Roosevelt Blvd & Levick St         | SBR      | 67                  | 31%                   | 7%                 | 7%                       | A                | A             | A          | A                |
|                                    | WBL1 (I) | 529                 | 7%                    | 7%                 | 13%                      | C                | C             | C          | C                |
|                                    | WBL2 (O) | 520                 | -2%                   | -2%                | -8%                      | C                | D             | D          | D                |
|                                    | WBR      | 47                  | -34%                  | -23%               | -22%                     | C                | C             | C          | C                |
|                                    | NBIT     | 1,673               | -24%                  | -18%               | -17%                     | A                | B             | A          | A                |
|                                    | NBOT     | 1,851               | -12%                  | -13%               | -14%                     | B                | B             | A          | A                |
|                                    | SBIT     | 1,463               | 1%                    | -10%               | 0%                       | D                | D             | D          | D                |
| Roosevelt Blvd & Haribson Ave      | SBOT     | 994                 | -13%                  | 2%                 | -12%                     | C                | C             | D          | D                |
|                                    | EBL1 (I) | 175                 | -54%                  | -65%               | -65%                     | B                | B             | B          | B                |
|                                    | EBL2 (O) | 9                   | -4%                   | -5%                | -7%                      | A                | A             | B          | B                |
|                                    | EBT      | 637                 | 7%                    | 7%                 | 7%                       | C                | C             | D          | D                |
|                                    | EBR1 (I) | 3                   | 33%                   | -19%               | 63%                      | C                | C             | D          | D                |
|                                    | EBR2 (O) | 11                  | -23%                  | -16%               | -36%                     | C                | C             | D          | D                |
|                                    | WBL1 (I) | 102                 | 5%                    | -60%               | -56%                     | C                | C             | A          | A                |
|                                    | WBL2 (O) | 108                 | -6%                   | -14%               | -17%                     | A                | A             | B          | B                |
|                                    | WBT      | 738                 | -1%                   | -1%                | -1%                      | C                | C             | D          | D                |
|                                    | WBR1 (I) | 116                 | -6%                   | -9%                | -9%                      | D                | D             | D          | D                |
|                                    | WBR2 (O) | 327                 | 10%                   | 12%                | 12%                      | B                | B             | A          | A                |
|                                    | NBIT     | 93                  | 5%                    | -                  | -                        | C                | D             | N/A        | N/A              |
|                                    | NBOT     | 1,582               | -24%                  | -12%               | -11%                     | C                | C             | B          | B                |
|                                    | NBOR     | 1,673               | -12%                  | -11%               | -13%                     | C                | C             | B          | B                |
|                                    | NBOR     | 167                 | -8%                   | -10%               | -10%                     | B                | A             | A          | A                |
|                                    | SBIL     | 382                 | -4%                   | -10%               | -10%                     | F                | E             | E          | E                |
|                                    | SBIT     | 1,212               | 11%                   | 1%                 | 11%                      | B                | B             | C          | C                |
|                                    | SBOT     | 1,101               | -21%                  | -6%                | -17%                     | B                | B             | C          | C                |
|                                    | SBOR     | 11                  | -10%                  | 189%               | 190%                     | B                | B             | B          | B                |
| Roosevelt Blvd & Unruh Ave Ped     | WBR      | 17                  | -2%                   | -2%                | -2%                      | A                | A             | A          | A                |
|                                    | NBIT     | 1,707               | -22%                  | -12%               | -11%                     | C                | A             | A          | A                |
|                                    | NBOT     | 2,018               | -12%                  | -12%               | -14%                     | A                | A             | A          | A                |
|                                    | NBOR     | 153                 | -10%                  | -5%                | -5%                      | A                | A             | A          | A                |
|                                    | SBIT     | 1,608               | 7%                    | -2%                | 5%                       | C                | A             | A          | A                |
|                                    | SBOT     | 1,101               | -20%                  | -4%                | -15%                     | A                | A             | A          | A                |
| Roosevelt Blvd & Longshore Ave Ped | SBOR     | 74                  | 2%                    | 3%                 | 3%                       | A                | A             | A          | A                |
|                                    | WBR      | 100                 | -14%                  | -13%               | -13%                     | A                | A             | A          | A                |
|                                    | NBIT     | 1,707               | -22%                  | -12%               | -11%                     | C                | A             | A          | A                |
|                                    | NBOT     | 1,977               | -12%                  | -12%               | -13%                     | B                | A             | A          | A                |
|                                    | NBOR     | 60                  | -19%                  | -15%               | -15%                     | B                | A             | A          | A                |
|                                    | EBR      | 11                  | -11%                  | -17%               | -17%                     | A                | A             | A          | A                |
|                                    | SBIT     | 1,630               | 6%                    | -4%                | 3%                       | A                | A             | A          | A                |
| Roosevelt Blvd & Tyson Ave         | SBOT     | 1,137               | -18%                  | -2%                | -13%                     | A                | A             | A          | A                |
|                                    | SBOR     | 4                   | 19%                   | 2%                 | -5%                      | A                | A             | A          | A                |
|                                    | EBL1 (I) | 125                 | 20%                   | 15%                | 8%                       | C                | C             | B          | B                |
|                                    | EBL2 (O) | 17                  | 40%                   | 74%                | 65%                      | A                | B             | B          | B                |
|                                    | EBT      | 474                 | 8%                    | 9%                 | 9%                       | D                | D             | D          | D                |
|                                    | EBR1 (I) | 15                  | 35%                   | 22%                | 34%                      | C                | D             | D          | D                |
|                                    | EBR2 (O) | 4                   | -11%                  | 6%                 | -43%                     | C                | D             | D          | D                |
|                                    | WBL1 (I) | 229                 | -19%                  | -41%               | -27%                     | C                | B             | B          | B                |
|                                    | WBL2 (O) | 94                  | -42%                  | 48%                | 8%                       | B                | B             | C          | D                |
|                                    | WBT      | 540                 | 13%                   | 11%                | 9%                       | F                | D             | F          | F                |
|                                    | WBR1 (I) | 62                  | -16%                  | -9%                | -10%                     | D                | C             | E          | E                |
|                                    | WBR2 (O) | 43                  | 14%                   | -1%                | -1%                      | E                | C             | E          | E                |
|                                    | NBIT1    | 205                 | -48%                  | -26%               | -29%                     | F                | C             | D          | D                |
|                                    | NBIT     | 1,500               | -18%                  | -10%               | -9%                      | C                | B             | B          | B                |
|                                    | NBOT     | 1,817               | -13%                  | -14%               | -15%                     | B                | C             | B          | B                |
|                                    | NBOR     | 263                 | 0%                    | 1%                 | -1%                      | C                | C             | B          | B                |
|                                    | SBIL     | 224                 | 6%                    | 12%                | 10%                      | F                | F             | D          | D                |
|                                    | SBIT     | 1,384               | 9%                    | 2%                 | 8%                       | B                | B             | B          | B                |
|                                    | SBOT     | 1,032               | -16%                  | -7%                | -15%                     | B                | B             | C          | B                |
|                                    | SBOR     | 54                  | 12%                   | 17%                | 21%                      | C                | B             | B          | B                |

% >10% reduction in volume throughput  
 % >10% increase in volume throughput

X LOS degradation compared to Existing  
 X LOS improvement compared to Existing

| Intersection                            | Movement  | Volumes             |                       |                    |                          | Level of Service |               |            |                  |
|---|-----------|---------------------|-----------------------|--------------------|--------------------------|------------------|---------------|------------|------------------|
|   |           | 2015 Existing (vph) | 2025 No Build Δ (vph) | 2025 Build Δ (vph) | 2025 Build S BAT Δ (vph) | 2015 Existing    | 2025 No Build | 2025 Build | 2025 Build S BAT |
| Roosevelt Blvd & Friendship St Ped      | NBIT      | 1,595               | -17%                  | -10%               | -9%                      | A                | A             | A          | A                |
|   | NBOT      | 1,980               | -11%                  | -13%               | -14%                     | A                | A             | A          | A                |
|   | SBIT      | 1,626               | 9%                    | 2%                 | 7%                       | A                | A             | A          | A                |
|   | SBOT      | 1,092               | -16%                  | -8%                | -15%                     | A                | A             | A          | A                |
|   | SBOR      | 1                   | -91%                  | -55%               | -55%                     | A                | A             | A          | A                |
| Roosevelt Blvd & Cottman Ave            | EBL       | 217                 | 31%                   | 26%                | 31%                      | B                | B             | D          | D                |
|   | EBT       | 970                 | -13%                  | -13%               | -13%                     | C                | C             | C          | C                |
|   | EBR       | 72                  | -34%                  | -30%               | -46%                     | D                | C             | C          | C                |
|   | WBL       | 301                 | -2%                   | -12%               | -7%                      | B                | B             | C          | C                |
|   | WBT       | 810                 | -23%                  | -23%               | -23%                     | C                | C             | C          | C                |
|   | WBR       | 46                  | 19%                   | 80%                | 44%                      | C                | C             | C          | C                |
|   | NBL       | 514                 | -5%                   | -6%                | -5%                      | E                | D             | C          | C                |
|   | NBT       | 1,177               | -18%                  | -20%               | -20%                     | C                | B             | B          | B                |
|   | NBR       | 194                 | -9%                   | -9%                | -10%                     | C                | B             | B          | B                |
|   | SBL       | 208                 | -33%                  | -34%               | -32%                     | B                | B             | B          | B                |
|   | SBT       | 793                 | -20%                  | -6%                | -16%                     | B                | C             | B          | B                |
|   | SBR       | 79                  | -3%                   | 1%                 | -3%                      | C                | C             | B          | C                |
| Roosevelt Blvd & Borbeck Ave - Ryan Ave | EBL1 (I)  | 32                  | -10%                  | -6%                | -6%                      | D                | D             | D          | D                |
|   | EBL2 (O)  | 24                  | -3%                   | -3%                | -3%                      | D                | D             | D          | D                |
|   | EBT       | 261                 | -5%                   | -6%                | -6%                      | D                | C             | D          | D                |
|   | EBR1 (I)  | 20                  | 0%                    | 2%                 | 3%                       | D                | C             | D          | D                |
|   | EBR2 (O)  | 8                   | -31%                  | -27%               | -29%                     | D                | C             | C          | C                |
|   | WBL1 (I)  | 18                  | -20%                  | -2%                | -4%                      | D                | D             | C          | C                |
|   | WBL2 (O)  | 56                  | -4%                   | -10%               | -10%                     | D                | D             | D          | D                |
|   | WBT       | 238                 | 7%                    | 7%                 | 7%                       | D                | C             | C          | C                |
|   | WBR1 (I)  | 40                  | -3%                   | -4%                | -4%                      | D                | C             | C          | C                |
|   | WBR2 (O)  | 8                   | -5%                   | -2%                | -2%                      | D                | C             | C          | C                |
|   | NBIU1 (I) | 3                   | 90%                   | 341%               | 383%                     | F                | F             | D          | D                |
|   | NBIU2 (O) | 21                  | -48%                  | -22%               | -35%                     | F                | F             | D          | D                |
|   | NBIL      | 158                 | -36%                  | -16%               | -16%                     | F                | F             | D          | D                |
|   | NBIT      | 1,503               | -17%                  | -13%               | -13%                     | D                | C             | C          | B                |
|   | NBOT      | 1,058               | 0%                    | 1%                 | 1%                       | D                | C             | B          | B                |
|   | NBOR      | 63                  | -18%                  | -26%               | -28%                     | D                | C             | B          | B                |
|   | SBIU1 (I) | 0                   | -50%                  | 650%               | 450%                     | C                | F             | B          | B                |
|   | SIU2 (O)  | 2                   | 383%                  | 1809%              | 2126%                    | E                | F             | E          | E                |
|   | SBIL      | 107                 | -3%                   | 7%                 | 8%                       | E                | F             | C          | C                |
|   | SBIT      | 1,440               | 3%                    | -4%                | -3%                      | C                | D             | C          | C                |
|   | SBOT      | 1,117               | -12%                  | -3%                | -5%                      | C                | D             | C          | C                |
|   | SBOR      | 38                  | 158%                  | 125%               | 125%                     | D                | C             | C          | C                |
| Roosevelt Blvd & Rhawn St               | EBL1 (I)  | 72                  | -4%                   | -4%                | -4%                      | E                | D             | D          | D                |
|   | EBL2 (O)  | 64                  | -2%                   | -3%                | -3%                      | E                | D             | D          | D                |
|   | EBT       | 381                 | 6%                    | 6%                 | 6%                       | D                | D             | D          | D                |
|   | EBR1 (I)  | 64                  | -7%                   | -5%                | -4%                      | D                | D             | D          | D                |
|   | EBR2 (O)  | 29                  | -20%                  | -22%               | -25%                     | D                | D             | D          | D                |
|   | WBL1 (I)  | 48                  | -6%                   | 5%                 | 5%                       | E                | D             | D          | D                |
|   | WBL2 (O)  | 56                  | 1%                    | -6%                | -6%                      | E                | D             | D          | D                |
|   | WBT       | 341                 | 2%                    | 2%                 | 2%                       | D                | D             | D          | D                |
|   | WBR1 (I)  | 103                 | 7%                    | 7%                 | 7%                       | D                | D             | D          | D                |
|   | WBR2 (O)  | 19                  | 8%                    | 6%                 | 6%                       | D                | D             | D          | D                |
|   | NBIU1 (I) | 0                   | 1225%                 | 12225%             | 13750%                   | D                | E             | D          | D                |
|   | NBIU2 (O) | 0                   | 75%                   | 250%               | 125%                     | C                | D             | E          | E                |
|   | NBIL      | 104                 | -30%                  | -34%               | -35%                     | F                | F             | D          | D                |
|   | NBIT      | 1,468               | -18%                  | -14%               | -15%                     | C                | A             | A          | A                |
|   | NBOT      | 1,053               | 2%                    | 4%                 | 5%                       | C                | A             | A          | A                |
|   | NBOR      | 40                  | -6%                   | -3%                | -2%                      | C                | A             | A          | A                |
|   | SBIU1 (I) | 0                   | -                     | -                  | -                        | A                | A             | F          | F                |
|   | SIU2 (O)  | 16                  | 45%                   | 90%                | 146%                     | F                | F             | F          | F                |
|   | SBIL      | 121                 | 10%                   | 18%                | 17%                      | F                | F             | F          | F                |
|   | SBIT      | 1,439               | 4%                    | -3%                | -2%                      | C                | B             | C          | C                |
|   | SBOT      | 1,061               | -6%                   | 2%                 | 0%                       | C                | A             | B          | B                |
|   | SBOR      | 26                  | 77%                   | 108%               | 110%                     | C                | A             | A          | B                |

% >10% reduction in volume throughput  
 % >10% increase in volume throughput

X LOS degradation compared to Existing  
 X LOS improvement compared to Existing

| Intersection                           | Movement  | Volumes             |                       |                    |                          | Level of Service |               |            |                  |
|--|-----------|---------------------|-----------------------|--------------------|--------------------------|------------------|---------------|------------|------------------|
|  |           | 2015 Existing (vph) | 2025 No Build Δ (vph) | 2025 Build Δ (vph) | 2025 Build S BAT Δ (vph) | 2015 Existing    | 2025 No Build | 2025 Build | 2025 Build S BAT |
| Roosevelt Blvd & Holme Ave - Solly Ave | EBL       | 105                 | -13%                  | -26%               | -22%                     | C                | C             | D          | D                |
|  | EBT       | 385                 | 4%                    | 3%                 | 3%                       | C                | D             | D          | D                |
|  | EBR       | 20                  | -13%                  | -15%               | -16%                     | C                | D             | D          | D                |
|  | WBL       | 274                 | 11%                   | -4%                | -4%                      | C                | C             | D          | D                |
|  | WBT       | 338                 | 1%                    | 1%                 | 1%                       | C                | C             | C          | C                |
|  | WBR       | 75                  | 5%                    | 52%                | 54%                      | C                | C             | C          | B                |
|  | NBL       | 25                  | -6%                   | -5%                | -6%                      | C                | C             | B          | B                |
|  | NBT       | 814                 | -13%                  | -10%               | -9%                      | C                | B             | A          | A                |
|  | NBR       | 291                 | 13%                   | 3%                 | 5%                       | C                | B             | A          | B                |
|  | SBL       | 213                 | -10%                  | 0%                 | 0%                       | C                | D             | C          | C                |
|  | SBT       | 824                 | -18%                  | -7%                | -10%                     | C                | D             | C          | C                |
|  | SBR       | 38                  | 3%                    | 1%                 | 1%                       | C                | D             | C          | C                |
| Roosevelt Blvd & Strahle St            | EBL1 (I)  | 161                 | 23%                   | 23%                | 23%                      | D                | D             | D          | D                |
|  | EBR1 (I)  | 51                  | 7%                    | 8%                 | 8%                       | D                | D             | D          | D                |
|  | EBR2 (O)  | 22                  | -29%                  | -38%               | -37%                     | D                | D             | D          | D                |
|  | WBR       | 29                  | 11%                   | 11%                | 9%                       | A                | A             | A          | A                |
|  | NBIU2 (O) | 79                  | -28%                  | 0%                 | 2%                       | E                | E             | D          | D                |
|  | NBIL      | 64                  | -15%                  | -14%               | -15%                     | E                | F             | C          | C                |
|  | NBIT      | 1,476               | -14%                  | -9%                | -11%                     | B                | A             | A          | A                |
|  | NBOT      | 1,034               | -11%                  | -6%                | -5%                      | A                | A             | A          | A                |
|  | NBOR      | 11                  | -7%                   | -21%               | -26%                     | A                | A             | A          | A                |
|  | SBIT      | 1,551               | 4%                    | 0%                 | 0%                       | B                | A             | A          | A                |
|  | SBOT      | 982                 | -16%                  | -6%                | -9%                      | B                | A             | A          | A                |
|  | SBOR      | 77                  | 6%                    | 9%                 | 8%                       | C                | A             | B          | B                |
| Roosevelt Blvd & Woodward St           | EBL1 (I)  | 25                  | -4%                   | 0%                 | 0%                       | E                | D             | D          | D                |
|  | EBL2 (O)  | 112                 | -8%                   | -11%               | -11%                     | E                | D             | D          | D                |
|  | EBT       | 78                  | -2%                   | 5%                 | 5%                       | D                | D             | D          | D                |
|  | EBR1 (I)  | 62                  | -18%                  | 6%                 | 5%                       | E                | D             | D          | D                |
|  | EBR2 (O)  | 4                   | -18%                  | 62%                | 59%                      | E                | D             | D          | D                |
|  | WBL1 (I)  | 26                  | -15%                  | 28%                | 36%                      | D                | D             | D          | D                |
|  | WBL2 (O)  | 81                  | 1%                    | -4%                | -7%                      | D                | D             | D          | D                |
|  | WBT       | 101                 | -3%                   | 2%                 | 2%                       | D                | D             | C          | C                |
|  | WBR1 (I)  | 9                   | -8%                   | -1%                | -1%                      | D                | D             | C          | C                |
|  | WBR2 (O)  | 9                   | -7%                   | -1%                | -5%                      | D                | C             | C          | C                |
|  | NBIU1 (I) | 5                   | 4%                    | 0%                 | 6%                       | F                | F             | F          | E                |
|  | NBIU2 (O) | 9                   | -64%                  | -64%               | -63%                     | F                | F             | F          | F                |
|  | NBIL      | 128                 | -1%                   | 32%                | 17%                      | F                | F             | F          | E                |
|  | NBIT      | 1,572               | -15%                  | -14%               | -14%                     | C                | B             | B          | B                |
|  | NBOT      | 837                 | -3%                   | 3%                 | 4%                       | C                | B             | B          | B                |
|  | NBOR      | 28                  | 1%                    | 4%                 | 1%                       | C                | B             | B          | B                |
|  | SBIU1 (I) | 0                   | -100%                 | 193%               | -27%                     | B                | A             | B          | B                |
|  | SIU2 (O)  | 3                   | 434%                  | 390%               | 331%                     | E                | E             | E          | E                |
|  | SBIL      | 19                  | 15%                   | 11%                | 13%                      | E                | D             | D          | D                |
|  | SBIT      | 1,341               | 4%                    | -2%                | -2%                      | C                | D             | C          | C                |
|  | SBOT      | 1,083               | -12%                  | -5%                | -7%                      | C                | D             | C          | C                |
|  | SBOR      | 48                  | 44%                   | -35%               | 9%                       | C                | D             | C          | C                |
| Roosevelt Blvd & Welsh Rd              | EBL1 (I)  | 14                  | 1%                    | 1%                 | 1%                       | D                | D             | D          | D                |
|  | EBL2 (O)  | 50                  | -4%                   | -4%                | -4%                      | E                | D             | D          | D                |
|  | EBT       | 366                 | 7%                    | 7%                 | 7%                       | D                | D             | D          | D                |
|  | EBR1 (I)  | 98                  | 19%                   | 21%                | 21%                      | D                | D             | D          | D                |
|  | EBR2 (O)  | 30                  | -23%                  | -30%               | -29%                     | D                | D             | D          | D                |
|  | WBL1 (I)  | 40                  | 11%                   | 7%                 | 9%                       | E                | E             | D          | D                |
|  | WBL2 (O)  | 108                 | 8%                    | 7%                 | 6%                       | E                | E             | D          | D                |
|  | WBT       | 333                 | 4%                    | 5%                 | 5%                       | D                | D             | D          | D                |
|  | WBR1 (I)  | 39                  | -3%                   | 0%                 | 0%                       | D                | D             | D          | D                |
|  | WBR2 (O)  | 29                  | 2%                    | 1%                 | 1%                       | D                | D             | D          | D                |
|  | NBIU1 (I) | 3                   | 417%                  | 437%               | 400%                     | F                | F             | E          | E                |
|  | NBIU2 (O) | 8                   | 14%                   | 43%                | 36%                      | F                | F             | F          | E                |
|  | NBIL      | 240                 | -11%                  | -9%                | -9%                      | F                | F             | E          | E                |
|  | NBIT      | 1,351               | -17%                  | -15%               | -16%                     | D                | B             | B          | C                |
|  | NBOT      | 906                 | -2%                   | 2%                 | 3%                       | D                | B             | B          | B                |
|  | NBOR      | 74                  | 1%                    | 8%                 | 5%                       | D                | B             | B          | B                |
|  | SIU2 (O)  | 34                  | -72%                  | -95%               | -81%                     | F                | F             | E          | F                |
|  | SBIL      | 127                 | -5%                   | -7%                | -7%                      | E                | E             | E          | E                |
|  | SBIT      | 1,231               | 2%                    | -4%                | -4%                      | D                | A             | D          | D                |
|  | SBOT      | 1,050               | -11%                  | -6%                | -6%                      | D                | B             | D          | D                |
|  | SBOR      | 46                  | -4%                   | -7%                | -8%                      | D                | C             | D          | D                |

% >10% reduction in volume throughput  
 % >10% increase in volume throughput

X LOS degradation compared to Existing  
 X LOS improvement compared to Existing

| Intersection                               | Movement  | Volumes             |                       |                    |                          | Level of Service |               |            |                  |
|--|-----------|---------------------|-----------------------|--------------------|--------------------------|------------------|---------------|------------|------------------|
|  |           | 2015 Existing (vph) | 2025 No Build Δ (vph) | 2025 Build Δ (vph) | 2025 Build S BAT Δ (vph) | 2015 Existing    | 2025 No Build | 2025 Build | 2025 Build S BAT |
| Roosevelt Blvd & Goodnow St                | EBL1 (I)  | 26                  | 9%                    | 10%                | 10%                      | D                | C             | C          | C                |
|  | EBL2 (O)  | 62                  | -2%                   | -2%                | -2%                      | D                | D             | C          | C                |
|  | EBT       | 39                  | -3%                   | -2%                | -2%                      | C                | C             | C          | C                |
|  | EBr1 (I)  | 21                  | 9%                    | 5%                 | 3%                       | C                | C             | C          | C                |
|  | EBr2 (O)  | 7                   | -1%                   | 24%                | 29%                      | D                | C             | C          | C                |
|  | WBL1 (I)  | 22                  | 0%                    | -4%                | -7%                      | D                | D             | C          | C                |
|  | WBL2 (O)  | 56                  | 12%                   | 14%                | 16%                      | D                | C             | C          | C                |
|  | WBT       | 40                  | 11%                   | 11%                | 11%                      | D                | C             | C          | C                |
|  | WBR1 (I)  | 39                  | 3%                    | 2%                 | 2%                       | D                | C             | C          | C                |
|  | WBR2 (O)  | 54                  | 5%                    | 3%                 | 3%                       | D                | C             | C          | C                |
|  | NBIU1 (I) | 44                  | -69%                  | -94%               | -82%                     | F                | E             | C          | D                |
|  | NBIU2 (O) | 0                   | -100%                 | 0%                 | 0%                       | C                | A             | A          | A                |
|  | NBIL      | 49                  | -1%                   | 6%                 | 6%                       | F                | E             | D          | D                |
|  | NBIT      | 1,282               | -13%                  | -11%               | -12%                     | B                | B             | A          | A                |
|  | NBOT      | 963                 | -6%                   | -2%                | -1%                      | B                | B             | A          | A                |
|  | NBOR      | 75                  | -19%                  | -13%               | -13%                     | B                | B             | A          | A                |
|  | SBIU1 (I) | 1                   | -53%                  | -86%               | -86%                     | D                | B             | A          | A                |
|  | SIU2 (O)  | 5                   | 182%                  | 14%                | 12%                      | E                | E             | E          | E                |
| Roosevelt Blvd & Grant Ave                 | SBIL      | 106                 | -8%                   | -10%               | -10%                     | F                | E             | D          | D                |
|  | SBIT      | 1,412               | -1%                   | -6%                | -4%                      | B                | C             | C          | C                |
|  | SBOT      | 941                 | -11%                  | 0%                 | -2%                      | C                | C             | C          | C                |
|  | SBOR      | 66                  | -7%                   | -9%                | -9%                      | C                | C             | C          | C                |
|  | EBL1 (I)  | 24                  | 5%                    | 6%                 | 6%                       | D                | D             | D          | D                |
|  | EBL2 (O)  | 86                  | 0%                    | 3%                 | 3%                       | E                | D             | D          | D                |
|  | EBT       | 896                 | 0%                    | 2%                 | 2%                       | D                | C             | C          | C                |
|  | EBr1 (I)  | 83                  | -13%                  | -16%               | -16%                     | D                | D             | D          | D                |
|  | EBr2 (O)  | 29                  | -30%                  | -8%                | -7%                      | D                | C             | D          | D                |
|  | WBL1 (I)  | 78                  | -20%                  | -18%               | -16%                     | F                | E             | E          | E                |
|  | WBL2 (O)  | 129                 | 1%                    | 2%                 | 1%                       | F                | E             | E          | E                |
|  | WBT       | 1,018               | 1%                    | 3%                 | 3%                       | D                | C             | C          | C                |
|  | WBR1 (I)  | 125                 | 2%                    | 5%                 | 5%                       | D                | C             | C          | C                |
|  | WBR2 (O)  | 43                  | 1%                    | 2%                 | 2%                       | C                | C             | C          | C                |
|  | NBIU1 (I) | 5                   | 170%                  | 17%                | 20%                      | F                | E             | D          | E                |
|  | NBIU2 (O) | 12                  | -22%                  | -24%               | -21%                     | E                | E             | E          | E                |
|  | NBIL      | 151                 | -13%                  | -14%               | -14%                     | E                | E             | E          | E                |
|  | NBIT      | 1,175               | -11%                  | -11%               | -11%                     | D                | B             | C          | C                |
|  | NBOT      | 847                 | -1%                   | -2%                | -1%                      | D                | C             | C          | C                |
|  | NBOR      | 196                 | -9%                   | -6%                | -6%                      | D                | C             | C          | C                |
|  | SBIU1 (I) | 1                   | 60%                   | 50%                | 40%                      | F                | D             | D          | C                |
|  | SIU2 (O)  | 42                  | -26%                  | -38%               | -25%                     | F                | D             | E          | E                |
|  | SBIL      | 370                 | 0%                    | -2%                | -3%                      | F                | D             | D          | D                |
|  | SBIT      | 1,315               | 2%                    | -6%                | -3%                      | D                | D             | C          | C                |
|  | SBOT      | 790                 | -17%                  | -8%                | -11%                     | D                | D             | C          | C                |
|  | SBOR      | 74                  | -15%                  | -20%               | -19%                     | E                | E             | E          | E                |
| Roosevelt Blvd & Whitman Plaza - Fulmer St | EBR       | 10                  | 29%                   | 31%                | 31%                      | A                | A             | A          | A                |
|  | WBL       | 187                 | -5%                   | -8%                | -7%                      | C                | C             | C          | C                |
|  | WBR1 (I)  | 99                  | -7%                   | -3%                | -5%                      | C                | C             | C          | C                |
|  | WBR2 (O)  | 16                  | -23%                  | -27%               | -27%                     | C                | C             | C          | C                |
|  | NBIU      | 46                  | -50%                  | -54%               | -45%                     | C                | A             | C          | B                |
|  | NBIT      | 1,299               | -9%                   | -9%                | -10%                     | C                | A             | B          | B                |
|  | NBOT      | 844                 | -5%                   | -6%                | -5%                      | C                | A             | B          | B                |
|  | NBOR      | 189                 | 5%                    | 4%                 | 4%                       | C                | A             | B          | B                |
|  | SBIU1 (I) | 0                   | -                     | -                  | -                        | A                | A             | A          | A                |
|  | SBIU2 (O) | 91                  | -54%                  | -54%               | -55%                     | F                | E             | E          | E                |
|  | SBIL      | 204                 | 0%                    | 1%                 | 2%                       | F                | E             | E          | E                |
|  | SBIT      | 1,432               | 1%                    | -3%                | -1%                      | A                | B             | B          | B                |
|  | SBOT      | 965                 | -17%                  | -10%               | -12%                     | A                | B             | B          | B                |
|  | SBOR      | 3                   | 0%                    | 29%                | 29%                      | A                | B             | B          | B                |

% >10% reduction in volume throughput  
 % >10% increase in volume throughput

X LOS degradation compared to Existing  
 X LOS improvement compared to Existing

| Intersection                       | Movement  | Volumes             |                       |                    |                          | Level of Service |               |            |                  |
|------------------------------------|-----------|---------------------|-----------------------|--------------------|--------------------------|------------------|---------------|------------|------------------|
|                                    |           | 2015 Existing (vph) | 2025 No Build Δ (vph) | 2025 Build Δ (vph) | 2025 Build S BAT Δ (vph) | 2015 Existing    | 2025 No Build | 2025 Build | 2025 Build S BAT |
| Roosevelt Blvd & Lott Street       | EBL1 (I)  | 17                  | 284%                  | 286%               | 286%                     | C                | C             | D          | D                |
|                                    | EBR1 (I)  | 150                 | -28%                  | -29%               | -29%                     | D                | C             | D          | D                |
|                                    | EBR2 (O)  | 8                   | -20%                  | -40%               | -48%                     | C                | D             | D          | D                |
|                                    | NBIU1 (I) | 0                   | -                     | -                  | -                        | A                | A             | A          | A                |
|                                    | NBIU2 (O) | 3                   | 50%                   | 218%               | 136%                     | D                | D             | E          | D                |
|                                    | NBIL      | 105                 | -12%                  | -14%               | -14%                     | E                | E             | D          | D                |
|                                    | NBIT      | 1,291               | -9%                   | -6%                | -7%                      | B                | A             | B          | B                |
|                                    | NBOT      | 950                 | -10%                  | -8%                | -7%                      | A                | A             | B          | B                |
|                                    | SBIU1 (I) | 0                   | -                     | -                  | -                        | A                | A             | A          | A                |
|                                    | SBIT      | 1,576               | 1%                    | -2%                | -1%                      | C                | C             | C          | C                |
|                                    | SBOT      | 952                 | -17%                  | -10%               | -11%                     | C                | C             | C          | C                |
|                                    | SBOR      | 40                  | -21%                  | -11%               | -12%                     | C                | C             | C          | C                |
| Roosevelt Blvd & Bowler St Ped     | EBR       | 47                  | -21%                  | -19%               | -19%                     | A                | A             | A          | A                |
|                                    | NBIT      | 1,308               | -5%                   | -2%                | -3%                      | A                | B             | A          | A                |
|                                    | NBOT      | 1,022               | -9%                   | -8%                | -7%                      | A                | A             | A          | A                |
|                                    | SBIT      | 1,564               | 1%                    | -2%                | -1%                      | B                | B             | A          | A                |
|                                    | SBOT      | 933                 | -15%                  | -9%                | -10%                     | A                | B             | A          | A                |
| Roosevelt Blvd & Conwell Ave       | EBL1 (I)  | 25                  | 34%                   | 31%                | 31%                      | E                | D             | D          | D                |
|                                    | EBR1 (I)  | 50                  | 13%                   | 11%                | 11%                      | E                | D             | C          | C                |
|                                    | EBR2 (O)  | 6                   | 9%                    | 0%                 | 0%                       | D                | E             | C          | C                |
|                                    | NBIU1 (I) | 0                   | -                     | -                  | -                        | A                | A             | A          | A                |
|                                    | NBIU2 (O) | 1                   | -86%                  | -79%               | -79%                     | C                | B             | C          | B                |
|                                    | NBIL      | 123                 | -4%                   | -1%                | -2%                      | D                | D             | E          | E                |
|                                    | NBIT      | 1,185               | -5%                   | -4%                | -5%                      | A                | A             | A          | A                |
|                                    | NBOT      | 1,084               | -5%                   | -5%                | -4%                      | A                | A             | B          | B                |
|                                    | SBIU1 (I) | 0                   | 250%                  | -50%               | -100%                    | A                | A             | A          | A                |
|                                    | SBIT      | 1,502               | 2%                    | -2%                | -1%                      | B                | A             | B          | B                |
|                                    | SBOT      | 927                 | -15%                  | -9%                | -11%                     | B                | A             | B          | B                |
|                                    | SBOR      | 29                  | 30%                   | 31%                | 30%                      | B                | A             | B          | B                |
| Roosevelt Blvd & Red Lion Rd       | EBL1 (I)  | 19                  | 19%                   | 17%                | 17%                      | D                | D             | D          | D                |
|                                    | EBL2 (O)  | 56                  | 3%                    | 2%                 | 1%                       | D                | D             | D          | D                |
|                                    | EBT       | 581                 | 8%                    | 8%                 | 8%                       | D                | D             | D          | D                |
|                                    | EBR1 (I)  | 296                 | -2%                   | -3%                | -3%                      | D                | E             | F          | F                |
|                                    | EBR2 (O)  | 39                  | -5%                   | -2%                | -11%                     | D                | D             | F          | F                |
|                                    | WBL1 (I)  | 67                  | -26%                  | -32%               | -31%                     | D                | E             | E          | E                |
|                                    | WBL2 (O)  | 93                  | -2%                   | -1%                | -2%                      | D                | E             | E          | E                |
|                                    | WBT       | 435                 | 2%                    | 2%                 | 2%                       | D                | D             | D          | D                |
|                                    | WBR1 (I)  | 12                  | 26%                   | 28%                | 28%                      | D                | D             | D          | D                |
|                                    | WBR2 (O)  | 23                  | 3%                    | 2%                 | 2%                       | D                | D             | D          | D                |
|                                    | NBIU1 (I) | 0                   | 850%                  | 350%               | 475%                     | C                | D             | D          | D                |
|                                    | NBIU2 (O) | 25                  | -16%                  | -6%                | -6%                      | F                | D             | D          | D                |
|                                    | NBIL      | 264                 | -11%                  | -7%                | -7%                      | F                | D             | D          | D                |
|                                    | NBIT      | 930                 | 9%                    | 3%                 | 2%                       | D                | C             | B          | B                |
|                                    | NBOT      | 893                 | -20%                  | -5%                | -4%                      | D                | C             | B          | B                |
|                                    | NBOR      | 187                 | -1%                   | -1%                | 2%                       | D                | C             | B          | B                |
|                                    | SBIU1 (I) | 0                   | -100%                 | -50%               | -100%                    | A                | A             | A          | A                |
|                                    | SIU2 (O)  | 0                   | 825%                  | 550%               | 300%                     | C                | E             | D          | E                |
|                                    | SBIL      | 27                  | 48%                   | 55%                | 38%                      | F                | E             | E          | E                |
|                                    | SBIT      | 1,158               | 2%                    | -1%                | 0%                       | C                | C             | B          | B                |
|                                    | SBOT      | 847                 | -19%                  | -13%               | -14%                     | C                | C             | B          | B                |
|                                    | SBOR      | 144                 | 21%                   | 21%                | 21%                      | D                | C             | B          | B                |
| Roosevelt Blvd & Tomlinson Ave Ped | EBR       | 98                  | -32%                  | -31%               | -31%                     | A                | A             | A          | A                |
|                                    | NBIT      | 969                 | 10%                   | 4%                 | 3%                       | A                | A             | A          | A                |
|                                    | NBOT      | 960                 | -18%                  | -3%                | -3%                      | A                | A             | A          | A                |
|                                    | SBIT      | 1,192               | 3%                    | -2%                | -1%                      | A                | A             | A          | A                |
|                                    | SBOT      | 964                 | -11%                  | -6%                | -8%                      | A                | A             | A          | A                |
|                                    | SBOR      | 50                  | 4%                    | 6%                 | 6%                       | A                | A             | A          | A                |

%

%

>10% reduction in volume throughput

>10% increase in volume throughput

X

X

LOS degradation compared to Existing

LOS improvement compared to Existing

| Intersection                  | Movement  | Volumes             |                       |                    |                          | Level of Service |               |            |                  |
|-------------------------------|-----------|---------------------|-----------------------|--------------------|--------------------------|------------------|---------------|------------|------------------|
|                               |           | 2015 Existing (vph) | 2025 No Build Δ (vph) | 2025 Build Δ (vph) | 2025 Build S BAT Δ (vph) | 2015 Existing    | 2025 No Build | 2025 Build | 2025 Build S BAT |
| Roosevelt Blvd & Haldeman Ave | EBL1 (I)  | 232                 | 11%                   | 14%                | 14%                      | D                | D             | D          | D                |
|                               | EBL2 (O)  | 317                 | -4%                   | -2%                | -2%                      | D                | D             | D          | D                |
|                               | EBT       | 0                   | -                     | -                  | -                        | A                | A             | A          | A                |
|                               | EBR2 (O)  | 2                   | 9%                    | 0%                 | 0%                       | C                | D             | D          | D                |
|                               | WBL1 (I)  | 28                  | -32%                  | -43%               | -43%                     | D                | D             | E          | E                |
|                               | WBL2 (O)  | 21                  | 3%                    | 18%                | 17%                      | E                | D             | E          | E                |
|                               | WBR1 (I)  | 7                   | 9%                    | 35%                | 35%                      | D                | D             | D          | D                |
|                               | WBR2 (O)  | 20                  | -1%                   | -4%                | -4%                      | B                | B             | B          | B                |
|                               | NBIU      | 0                   | 3550%                 | 3300%              | 100%                     | A                | B             | A          | A                |
|                               | NBIT      | 956                 | 10%                   | 2%                 | 2%                       | A                | B             | A          | A                |
|                               | NBOT      | 949                 | -17%                  | -4%                | -4%                      | A                | B             | A          | A                |
|                               | NBOR      | 0                   | 200%                  | 200%               | 200%                     | A                | A             | A          | A                |
|                               | SBIU      | 26                  | -90%                  | -89%               | -87%                     | B                | A             | A          | A                |
|                               | SBIT      | 1,171               | 3%                    | -2%                | -1%                      | B                | B             | A          | A                |
|                               | SBOT      | 994                 | -10%                  | -7%                | -8%                      | B                | B             | A          | A                |
| Roosevelt Blvd & Plaza Dr     | EBL1 (I)  | 66                  | 17%                   | 18%                | 18%                      | D                | D             | D          | D                |
|                               | EBL2 (O)  | 114                 | -6%                   | -6%                | -6%                      | D                | D             | D          | D                |
|                               | EBT       | 0                   | 100%                  | 0%                 | 0%                       | B                | B             | A          | A                |
|                               | EBR1 (I)  | 50                  | -9%                   | -14%               | -11%                     | D                | D             | C          | C                |
|                               | EBR2 (O)  | 19                  | -14%                  | -5%                | -12%                     | C                | C             | C          | C                |
|                               | WBL1 (I)  | 7                   | -51%                  | -58%               | -58%                     | C                | C             | D          | D                |
|                               | WBL2 (O)  | 11                  | -12%                  | -6%                | -6%                      | D                | D             | C          | C                |
|                               | WBT       | 2                   | 0%                    | -4%                | -4%                      | C                | D             | C          | C                |
|                               | WBR1 (I)  | 2                   | 32%                   | 84%                | 79%                      | C                | D             | C          | C                |
|                               | WBR2 (O)  | 1                   | 0%                    | -64%               | -64%                     | C                | C             | B          | B                |
|                               | NBIU1 (I) | 9                   | -45%                  | -52%               | -53%                     | D                | E             | F          | F                |
|                               | NBIU2 (O) | 52                  | -65%                  | -55%               | -54%                     | E                | F             | E          | E                |
|                               | NBIL      | 78                  | -5%                   | 2%                 | 3%                       | E                | E             | E          | E                |
|                               | NBIT      | 1,090               | 12%                   | 5%                 | 4%                       | B                | C             | B          | B                |
|                               | NBOT      | 1,292               | -14%                  | -5%                | -5%                      | B                | C             | B          | B                |
| Roosevelt Blvd & Nabisco Dr   | NBOR      | 1                   | 90%                   | 180%               | 180%                     | B                | B             | B          | B                |
|                               | SBIT      | 1,130               | 2%                    | -2%                | -1%                      | D                | A             | C          | C                |
|                               | SBOT      | 1,491               | -6%                   | -3%                | -4%                      | D                | B             | C          | C                |
|                               | SBOR      | 175                 | 23%                   | 22%                | 22%                      | D                | B             | C          | C                |
|                               | EBL1 (I)  | 9                   | -45%                  | -47%               | -50%                     | D                | F             | E          | E                |
|                               | EBL2 (O)  | 1                   | 40%                   | -40%               | -40%                     | C                | E             | C          | C                |
|                               | EBR2 (O)  | 39                  | 10%                   | 12%                | 13%                      | D                | D             | D          | E                |
|                               | NBIU1 (I) | 0                   | -100%                 | -100%              | -100%                    | A                | A             | A          | A                |
|                               | NBIU2 (O) | 0                   | -                     | -                  | -                        | A                | A             | A          | A                |
|                               | NBIL      | 0                   | -                     | -                  | -                        | A                | A             | A          | A                |
| Roosevelt Blvd & Comly Rd     | NBIT      | 1,154               | 13%                   | 6%                 | 6%                       | B                | C             | A          | A                |
|                               | NBOT      | 1,401               | -13%                  | -4%                | -4%                      | B                | C             | A          | B                |
|                               | SBIT      | 1,111               | 3%                    | -2%                | -1%                      | A                | A             | A          | A                |
|                               | SBOT      | 1,548               | -2%                   | 0%                 | -1%                      | A                | A             | A          | A                |
|                               | SBOR      | 29                  | 11%                   | 10%                | 11%                      | A                | A             | A          | A                |
|                               | WBL1 (I)  | 44                  | -25%                  | -24%               | -24%                     | C                | C             | C          | C                |
|                               | WBL2 (O)  | 327                 | 7%                    | 7%                 | 6%                       | D                | D             | E          | E                |
|                               | WBR1 (I)  | 276                 | 2%                    | 22%                | 20%                      | D                | D             | E          | E                |
|                               | WBR2 (O)  | 8                   | 22%                   | 25%                | 25%                      | D                | D             | E          | E                |
|                               | NBIT      | 1,167               | 12%                   | 5%                 | 5%                       | A                | C             | B          | B                |



>10% reduction in volume throughput  
>10% increase in volume throughput



X LOS degradation compared to Existing  
X LOS improvement compared to Existing

| Intersection                           | Movement  | Volumes             |                       |                    |                          | Level of Service |               |            |                  |
|--|-----------|---------------------|-----------------------|--------------------|--------------------------|------------------|---------------|------------|------------------|
|  |           | 2015 Existing (vph) | 2025 No Build Δ (vph) | 2025 Build Δ (vph) | 2025 Build S BAT Δ (vph) | 2015 Existing    | 2025 No Build | 2025 Build | 2025 Build S BAT |
| Roosevelt Blvd & Byberry Rd            | EBL2 (O)  | 92                  | -17%                  | -18%               | -18%                     | C                | C             | C          | C                |
|  | EBR1 (I)  | 175                 | -23%                  | -28%               | -26%                     | D                | D             | D          | D                |
|  | EBR2 (O)  | 152                 | -2%                   | 3%                 | 2%                       | D                | C             | D          | D                |
|  | NBIU1 (I) | 12                  | -66%                  | -63%               | -63%                     | D                | E             | D          | D                |
|  | NBIU2 (O) | 0                   | -                     | -                  | -                        | A                | A             | A          | A                |
|  | NBIL      | 151                 | -19%                  | -19%               | -20%                     | E                | C             | E          | E                |
|  | NBIT      | 1,279               | 14%                   | 12%                | 11%                      | A                | A             | B          | B                |
|  | NBOT      | 601                 | -21%                  | -13%               | -12%                     | A                | A             | A          | A                |
|  | NBOR      | 613                 | -1%                   | 1%                 | 1%                       | A                | A             | A          | A                |
|  | SBIT      | 1,194               | 7%                    | 5%                 | 5%                       | A                | D             | C          | C                |
|  | SBOT      | 1,094               | -3%                   | -1%                | -1%                      | B                | C             | C          | C                |
|  | SBOR      | 182                 | -16%                  | -17%               | -16%                     | A                | A             | A          | A                |
| Roosevelt Blvd & Hornig Rd - Crown Way | EBL1 (I)  | 88                  | 12%                   | 7%                 | 11%                      | D                | C             | C          | C                |
|  | EBL2 (O)  | 8                   | 0%                    | 35%                | -1%                      | D                | D             | D          | C                |
|  | EBT       | 2                   | 10%                   | -5%                | 0%                       | C                | C             | C          | C                |
|  | EBR1 (I)  | 46                  | -1%                   | 2%                 | 3%                       | C                | C             | C          | C                |
|  | EBR2 (O)  | 81                  | -4%                   | -6%                | -6%                      | C                | C             | C          | C                |
|  | WBL1 (I)  | 10                  | -4%                   | 1%                 | 1%                       | C                | C             | C          | C                |
|  | WBL2 (O)  | 52                  | -10%                  | -13%               | -13%                     | C                | C             | C          | C                |
|  | WBT       | 5                   | -2%                   | -5%                | -7%                      | C                | C             | C          | C                |
|  | WBR1 (I)  | 72                  | -4%                   | -5%                | -5%                      | C                | C             | C          | C                |
|  | WBR2 (O)  | 0                   | 0%                    | -100%              | 100%                     | A                | B             | A          | C                |
|  | NBIU1 (I) | 0                   | -                     | -                  | -                        | A                | A             | A          | A                |
|  | NBIU2 (O) | 2                   | -12%                  | -47%               | -47%                     | E                | D             | E          | D                |
|  | NBIL      | 17                  | -3%                   | -7%                | -8%                      | E                | E             | E          | E                |
|  | NBIT      | 1,349               | 11%                   | 11%                | 10%                      | A                | C             | B          | B                |
|  | NBOT      | 1,424               | -9%                   | -5%                | -5%                      | B                | C             | B          | B                |
|  | NBOR      | 13                  | -3%                   | -8%                | -8%                      | A                | B             | A          | A                |
|  | SBIU1 (I) | 0                   | 200%                  | 300%               | 0%                       | B                | B             | C          | C                |
|  | SIU2 (O)  | 5                   | -83%                  | -100%              | -98%                     | F                | D             | A          | B                |
|  | SBIL      | 3                   | -17%                  | -8%                | -6%                      | E                | E             | D          | D                |
|  | SBIT      | 1,136               | 8%                    | 6%                 | 6%                       | A                | A             | B          | B                |
|  | SBOT      | 1,568               | -3%                   | 0%                 | -1%                      | A                | B             | B          | B                |
|  | SBOR      | 29                  | 22%                   | 20%                | 18%                      | A                | B             | B          | B                |
| Roosevelt Blvd & Southampton Rd        | EBL1 (I)  | 84                  | 22%                   | 18%                | 18%                      | E                | E             | D          | D                |
|  | EBL2 (O)  | 0                   | -                     | -                  | -                        | A                | A             | B          | B                |
|  | EBT       | 274                 | 1%                    | 0%                 | 0%                       | C                | C             | C          | C                |
|  | EBR1 (I)  | 53                  | -3%                   | 1%                 | 1%                       | C                | C             | C          | C                |
|  | EBR2 (O)  | 114                 | -12%                  | -13%               | -12%                     | C                | C             | C          | C                |
|  | WBL1 (I)  | 67                  | 12%                   | 10%                | 10%                      | E                | D             | D          | D                |
|  | WBL2 (O)  | 94                  | -1%                   | 2%                 | 1%                       | E                | D             | D          | D                |
|  | WBT       | 432                 | 7%                    | 7%                 | 7%                       | D                | D             | C          | C                |
|  | WBR1 (I)  | 247                 | 45%                   | 44%                | 44%                      | D                | D             | D          | D                |
|  | WBR2 (O)  | 0                   | -100%                 | -100%              | 0%                       | B                | A             | A          | A                |
|  | NBIU1 (I) | 6                   | -70%                  | -90%               | -89%                     | E                | D             | C          | B                |
|  | NBIU2 (O) | 2                   | -47%                  | -41%               | -41%                     | E                | C             | D          | D                |
|  | NBIL      | 265                 | -12%                  | -11%               | -11%                     | E                | E             | D          | D                |
|  | NBIT      | 1,441               | 12%                   | 11%                | 11%                      | C                | B             | C          | C                |
|  | NBOT      | 1,100               | -8%                   | -3%                | -2%                      | C                | C             | C          | C                |
|  | NBOR      | 120                 | -15%                  | -15%               | -14%                     | B                | C             | C          | C                |
|  | SBIU1 (I) | 7                   | 62%                   | 57%                | 56%                      | F                | F             | F          | F                |
|  | SIU2 (O)  | 0                   | -                     | -                  | -                        | A                | A             | A          | A                |
|  | SBIL      | 248                 | -16%                  | -4%                | -4%                      | F                | F             | F          | F                |
|  | SBIT      | 1,019               | 9%                    | 5%                 | 6%                       | C                | D             | C          | C                |
|  | SBOT      | 1,385               | -2%                   | 1%                 | 1%                       | C                | D             | D          | C                |
|  | SBOR      | 198                 | 19%                   | 16%                | 16%                      | D                | C             | D          | D                |

% >10% reduction in volume throughput  
 % >10% increase in volume throughput

X LOS degradation compared to Existing  
 X LOS improvement compared to Existing

| Intersection                     | Movement | Volumes             |                       |                    |                          | Level of Service |               |            |                  |
|----------------------------------|----------|---------------------|-----------------------|--------------------|--------------------------|------------------|---------------|------------|------------------|
|                                  |          | 2015 Existing (vph) | 2025 No Build Δ (vph) | 2025 Build Δ (vph) | 2025 Build S BAT Δ (vph) | 2015 Existing    | 2025 No Build | 2025 Build | 2025 Build S BAT |
| Roosevelt Blvd & Northgate Dr    | EBL      | 150                 | 38%                   | 38%                | 38%                      | D                | D             | D          | D                |
|                                  | EBT      | 3                   | -56%                  | -69%               | -56%                     | D                | D             | E          | E                |
|                                  | EBR      | 224                 | -14%                  | -14%               | -14%                     | B                | B             | B          | B                |
|                                  | WBL      | 2                   | -56%                  | -44%               | -44%                     | D                | B             | C          | C                |
|                                  | WBT      | 5                   | 10%                   | 14%                | 14%                      | D                | D             | C          | C                |
|                                  | WBR      | 2                   | -15%                  | -40%               | -10%                     | B                | B             | B          | C                |
|                                  | NBL      | 94                  | 0%                    | 3%                 | 3%                       | D                | E             | E          | E                |
|                                  | NBT      | 2,757               | 9%                    | 10%                | 10%                      | B                | B             | A          | A                |
|                                  | NBR      | 6                   | 5%                    | 2%                 | 6%                       | B                | A             | A          | A                |
|                                  | SBT      | 2,631               | 7%                    | 7%                 | 7%                       | A                | A             | A          | A                |
|                                  | SBR      | 13                  | 63%                   | 74%                | 74%                      | A                | B             | B          | B                |
| Roosevelt Blvd & Old Lincoln Hwy | EBL      | 327                 | 4%                    | 21%                | 21%                      | E                | F             | E          | E                |
|                                  | EBT      | 77                  | 13%                   | 16%                | 16%                      | D                | E             | D          | D                |
|                                  | EBR      | 513                 | -22%                  | -26%               | -27%                     | A                | A             | D          | D                |
|                                  | WBL      | 86                  | -6%                   | -5%                | -5%                      | E                | E             | E          | E                |
|                                  | WBT      | 104                 | 16%                   | 14%                | 14%                      | E                | E             | E          | E                |
|                                  | WBR      | 6                   | 85%                   | 68%                | 74%                      | C                | C             | D          | D                |
|                                  | NBL      | 339                 | -11%                  | -12%               | -11%                     | E                | E             | C          | C                |
|                                  | NBT      | 2,421               | 16%                   | 17%                | 17%                      | B                | A             | A          | A                |
|                                  | NBR      | 0                   | 800%                  | 5100%              | 5800%                    | A                | A             | A          | A                |
|                                  | SBL      | 29                  | 42%                   | 37%                | 37%                      | D                | D             | F          | E                |
|                                  | SBT      | 2,072               | 13%                   | 15%                | 15%                      | A                | B             | B          | B                |
|                                  | SBR      | 112                 | -18%                  | -18%               | -18%                     | A                | B             | B          | B                |

% >10% reduction in volume throughput  
 % >10% increase in volume throughput

X LOS degradation compared to Existing  
 X LOS improvement compared to Existing

## **APPENDIX C**

| Intersection                 | Movement | Volumes             |                   |                |                      | Average Queues       |                        |                     |                           |
|------------------------------|----------|---------------------|-------------------|----------------|----------------------|----------------------|------------------------|---------------------|---------------------------|
|                              |          | 2015 Existing (vph) | 2025 No Build Δ % | 2025 Build Δ % | 2025 Build S BAT Δ % | 2015 Existing (feet) | 2025 No Build Δ (feet) | 2025 Build Δ (feet) | 2025 Build S BAT Δ (feet) |
| Broad St & Roosevelt Blvd    | EBT      | 911                 | 1%                | 1%             | 1%                   | 15.4                 | -1.6                   | -1.9                | -1.3                      |
|                              | EBR      | 115                 | 26%               | 27%            | 27%                  | 15.4                 | -1.6                   | -1.9                | -1.3                      |
|                              | WBT      | 1,272               | 2%                | 2%             | 2%                   | 50.0                 | 0.7                    | 2.0                 | 2.8                       |
|                              | WBR      | 375                 | 22%               | 22%            | 22%                  | 50.0                 | 0.7                    | 2.0                 | 2.8                       |
|                              | NBT      | 777                 | -13%              | -13%           | -13%                 | 54.8                 | 0.4                    | 1.9                 | 1.8                       |
|                              | NBR      | 3                   | -31%              | -31%           | -31%                 | 54.8                 | 0.4                    | 1.9                 | 1.8                       |
|                              | SBT      | 445                 | 12%               | 12%            | 12%                  | 38.8                 | -8.9                   | -2.7                | -2.5                      |
| Broad St & Bristol St        | SBR      | 0                   | -                 | -              | -                    | 39.7                 | -9.1                   | -2.7                | -2.4                      |
|                              | EBT      | 867                 | 6%                | 6%             | 6%                   | 23.5                 | -2.2                   | -2.3                | -2.2                      |
|                              | WBT      | 1,272               | 2%                | 2%             | 2%                   | 12.3                 | -0.4                   | 0.3                 | 0.1                       |
|                              | NBL      | 22                  | -5%               | -5%            | -5%                  | 10.8                 | 0.2                    | 0.2                 | 0.4                       |
|                              | NBR      | 49                  | 1%                | 3%             | 3%                   | 10.3                 | 0.2                    | 0.2                 | 0.3                       |
|                              | SBL      | 110                 | -10%              | -13%           | -13%                 | 16.9                 | -6.7                   | -3.4                | -3.7                      |
| Roosevelt Blvd & Old York Rd | SBR      | 31                  | -16%              | -17%           | -19%                 | 16.9                 | -6.7                   | -3.4                | -3.7                      |
|                              | EBL      | 91                  | -5%               | -2%            | -2%                  | 73.4                 | 0.9                    | 2.4                 | 2.4                       |
|                              | EBT      | 414                 | 4%                | 4%             | 4%                   | 73.4                 | 0.9                    | 2.4                 | 2.4                       |
|                              | EBR      | 39                  | 1%                | 0%             | 0%                   | 77.7                 | 0.7                    | 2.5                 | 2.5                       |
|                              | WBL      | 3                   | -14%              | -              | -                    | 102.1                | -0.3                   | -                   | -                         |
|                              | WBT      | 574                 | 1%                | 1%             | 1%                   | 102.1                | -0.3                   | -3.0                | -3.4                      |
|                              | WBR      | 227                 | 2%                | 4%             | 4%                   | 109.5                | -0.5                   | -3.2                | -3.6                      |
|                              | NBL      | 105                 | 2%                | 3%             | 3%                   | 48.9                 | 22.5                   | 22.8                | 22.6                      |
|                              | NBT      | 1,037               | -3%               | -3%            | -3%                  | 48.9                 | 22.5                   | 22.8                | 22.6                      |
|                              | NBR      | 6                   | 3%                | 6%             | 6%                   | 52.4                 | 23.1                   | 23.4                | 23.3                      |
|                              | SBL      | 1                   | 29%               | 0%             | -14%                 | 14.1                 | 5.8                    | 8.4                 | 9.6                       |
| Roosevelt Blvd & 9th Street  | SBT      | 575                 | 7%                | 7%             | 6%                   | 14.1                 | 5.8                    | 8.4                 | 9.6                       |
|                              | SBR      | 31                  | -2%               | -6%            | -7%                  | 17.1                 | 6.4                    | 8.7                 | 9.8                       |
|                              | EBL1 (I) | 8                   | 15%               | 1%             | 16%                  | 16.7                 | -0.7                   | 6.6                 | 6.7                       |
|                              | EBL2 (O) | 23                  | 6%                | 12%            | 8%                   | 16.7                 | -0.7                   | 6.6                 | 6.7                       |
|                              | EBT      | 161                 | 12%               | 29%            | 30%                  | 47.1                 | 10.4                   | 20.4                | 20.8                      |
|                              | EBr1 (I) | 89                  | 12%               | 12%            | 12%                  | 47.1                 | 10.4                   | 20.4                | 20.8                      |
|                              | EBr2 (O) | 2                   | 11%               | 33%            | 33%                  | 47.1                 | 10.4                   | 20.4                | 20.8                      |
|                              | WBL1 (I) | 264                 | -5%               | -4%            | -4%                  | 27.2                 | 0.7                    | -4.9                | -5.3                      |
|                              | WBL2 (O) | 52                  | 2%                | 6%             | 6%                   | 27.2                 | 0.7                    | -4.9                | -5.3                      |
|                              | WBT      | 503                 | -2%               | -1%            | -1%                  | 149.2                | -1.6                   | 40.8                | 39.0                      |
|                              | WBR1 (I) | 25                  | -7%               | -9%            | -7%                  | 149.2                | -1.6                   | 40.8                | 39.0                      |
|                              | WBR2 (O) | 18                  | 10%               | 3%             | 1%                   | 149.2                | -1.6                   | 40.8                | 39.0                      |
|                              | NBIL     | 112                 | 8%                | 16%            | 16%                  | 67.8                 | 1.8                    | 14.6                | 14.6                      |
|                              | NBIT     | 2,308               | -4%               | -4%            | -3%                  | 67.8                 | 1.8                    | 14.6                | 14.6                      |
|                              | NBOT     | 1,904               | 4%                | 2%             | 3%                   | 85.0                 | 4.9                    | 10.2                | 3.0                       |
| Roosevelt Blvd & 7th Street  | NBOR     | 0                   | -                 | -              | -                    | 4.4                  | 84.2                   | 62.4                | 19.1                      |
|                              | SBIL     | 118                 | -1%               | -3%            | -3%                  | 69.1                 | 2.6                    | 70.8                | 61.9                      |
|                              | SBIT     | 2,000               | 3%                | -1%            | -2%                  | 69.1                 | 2.6                    | 70.8                | 61.9                      |
|                              | SBOT     | 1,036               | -3%               | 5%             | 5%                   | 27.1                 | 11.3                   | 42.9                | 68.6                      |
|                              | SBOR     | 31                  | 5%                | 53%            | 51%                  | 20.0                 | 11.4                   | 48.1                | 73.5                      |
|                              | EBL1 (I) | 66                  | -13%              | -14%           | -11%                 | 1.5                  | 9.4                    | 8.3                 | 4.1                       |
|                              | EBL2 (O) | 194                 | 51%               | 37%            | 28%                  | 1.5                  | 9.4                    | 8.3                 | 4.1                       |
|                              | EBT      | 253                 | 12%               | 12%            | 12%                  | 48.4                 | 8.1                    | 22.7                | 22.5                      |
| Roosevelt Blvd & 5th Street  | EBr1 (I) | 3                   | 11%               | 11%            | 11%                  | 48.4                 | 8.1                    | 22.7                | 22.5                      |
|                              | EBr2 (O) | 0                   | -100%             | -100%          | -100%                | 48.4                 | 8.1                    | 22.7                | 22.5                      |
|                              | NBIT     | 2,337               | -6%               | -3%            | -3%                  | 82.6                 | 16.0                   | 14.7                | 15.4                      |
|                              | NBOT     | 1,965               | 3%                | 2%             | 3%                   | 76.3                 | 15.4                   | 156.5               | 111.7                     |
|                              | SBIL     | 7                   | 810%              | 440%           | 239%                 | 65.2                 | 17.1                   | 34.8                | 30.5                      |
|                              | SBIT     | 2,114               | 2%                | -1%            | -2%                  | 65.2                 | 17.1                   | 34.8                | 30.5                      |
|                              | SBOT     | 1,045               | -2%               | 5%             | 6%                   | 33.4                 | -1.4                   | 27.0                | 28.4                      |
|                              | SBOR     | 183                 | 9%                | 7%             | 6%                   | 0.9                  | 0.5                    | 9.8                 | 10.7                      |
| Roosevelt Blvd & 5th Street  | EBL      | 71                  | 145%              | 31%            | 11%                  | 13.0                 | 28.2                   | 9.0                 | 7.6                       |
|                              | EBT      | 278                 | 3%                | 3%             | 3%                   | 99.0                 | 14.8                   | 20.7                | 18.7                      |
|                              | EBr      | 91                  | 2%                | 2%             | 2%                   | 98.9                 | 14.8                   | 20.7                | 18.7                      |
|                              | WBL      | 104                 | 48%               | 21%            | 12%                  | 47.0                 | 11.5                   | 28.8                | 28.4                      |
|                              | WBT      | 391                 | -1%               | -9%            | -1%                  | 83.2                 | 10.7                   | 17.5                | 18.9                      |
|                              | WBR      | 3                   | -36%              | -64%           | -64%                 | 83.2                 | 10.7                   | 17.5                | 18.9                      |
|                              | NBOL     | 255                 | 21%               | 17%            | 5%                   | 84.0                 | 20.8                   | 171.6               | 125.8                     |
|                              | NBOT     | 1,867               | 6%                | 4%             | 4%                   | 84.0                 | 20.8                   | 168.0               | 122.2                     |
|                              | NBOR     | 0                   | -                 | -              | -                    | 84.0                 | 20.8                   | 163.6               | 118.0                     |
|                              | SBOL     | 108                 | 98%               | 21%            | 8%                   | 21.2                 | 6.5                    | -7.7                | -6.2                      |
|                              | SBOT     | 999                 | -7%               | 3%             | 5%                   | 21.2                 | 6.5                    | -7.7                | -6.2                      |
|                              | SBOR     | 23                  | -14%              | 10%            | -6%                  | 21.2                 | 6.5                    | -7.7                | -6.2                      |

% >10% reduction in volume throughput  
 % >10% increase in volume throughput

X.X Queue decreased by 20% and atleast 50 feet compared to Existing  
 X.X Queue increased by 20% and atleast 50 feet compared to Existing

| Intersection                          | Movement  | Volumes             |                   |                |                      | Average Queues       |                        |                     |                           |
|---------------------------------------|-----------|---------------------|-------------------|----------------|----------------------|----------------------|------------------------|---------------------|---------------------------|
|                                       |           | 2015 Existing (vph) | 2025 No Build Δ % | 2025 Build Δ % | 2025 Build S BAT Δ % | 2015 Existing (feet) | 2025 No Build Δ (feet) | 2025 Build Δ (feet) | 2025 Build S BAT Δ (feet) |
| Roosevelt Blvd & 4th-3rd Street       | EBL1 (I)  | 69                  | 9%                | -36%           | -35%                 | 14.1                 | 2.5                    | -1.9                | -2.0                      |
|                                       | EBL2 (O)  | 77                  | 23%               | 21%            | 21%                  | 14.1                 | 2.5                    | -1.9                | -2.0                      |
|                                       | EBT       | 245                 | 10%               | 12%            | 12%                  | 45.2                 | 8.1                    | 36.1                | 34.3                      |
|                                       | EBR1 (I)  | 26                  | -9%               | -10%           | -10%                 | 45.2                 | 8.1                    | 36.1                | 34.3                      |
|                                       | EBR2 (O)  | 15                  | 43%               | 2%             | 2%                   | 45.2                 | 8.1                    | 36.1                | 34.3                      |
|                                       | WBL1 (I)  | 41                  | -12%              | -12%           | -12%                 | 30.7                 | 16.7                   | -2.8                | -2.7                      |
|                                       | WBL2 (O)  | 68                  | 113%              | 4%             | -3%                  | 30.7                 | 16.7                   | -2.8                | -2.7                      |
|                                       | WBT       | 258                 | 9%                | 10%            | 10%                  | 56.9                 | 33.1                   | 10.5                | 9.8                       |
|                                       | WBR1 (I)  | 13                  | -27%              | -36%           | -31%                 | 56.9                 | 33.1                   | 10.5                | 9.8                       |
|                                       | WBR2 (O)  | 54                  | 31%               | 31%            | 30%                  | 56.9                 | 33.1                   | 10.5                | 9.8                       |
|                                       | NBIL1     | 213                 | 33%               | 8%             | 6%                   | 86.1                 | 611.1                  | 4.2                 | 5.1                       |
|                                       | NBIT      | 2,233               | -11%              | -7%            | -6%                  | 86.1                 | 611.1                  | 4.2                 | 5.1                       |
|                                       | NBOT      | 1,881               | 12%               | 5%             | 4%                   | 56.1                 | -34.1                  | -25.3               | -27.2                     |
|                                       | NBOR      | 16                  | 1%                | 1%             | 8%                   | 56.1                 | -34.1                  | -25.3               | -27.2                     |
|                                       | SBIL      | 84                  | 7%                | -39%           | -40%                 | 85.1                 | 30.6                   | 70.3                | 67.7                      |
|                                       | SBIT      | 2,084               | 5%                | 0%             | -2%                  | 85.1                 | 30.6                   | 70.3                | 67.7                      |
|                                       | SBOT      | 1,051               | -5%               | 5%             | 5%                   | 27.2                 | 15.0                   | 67.1                | 69.1                      |
|                                       | SBOR      | 5                   | 46%               | 53%            | 46%                  | 27.2                 | 15.0                   | 67.1                | 69.1                      |
| Roosevelt Blvd & 2nd St Ped           | WBR       | 23                  | -5%               | 2%             | 2%                   | 0.1                  | 0.5                    | 0.3                 | 0.3                       |
|                                       | NBIT      | 2,676               | -11%              | -11%           | -9%                  | 3.3                  | 7.1                    | -0.9                | -0.6                      |
|                                       | NBOT      | 1,649               | 19%               | 14%            | 11%                  | 5.3                  | 17.7                   | 0.6                 | 0.5                       |
|                                       | SBIT      | 2,217               | 2%                | -3%            | -2%                  | 30.3                 | -23.1                  | -26.9               | -25.9                     |
|                                       | SBOT      | 1,144               | 2%                | 9%             | 4%                   | 20.3                 | -19.3                  | -16.7               | -17.0                     |
| Roosevelt Blvd & Mascher St           | EBL1 (I)  | 84                  | -6%               | 2%             | 8%                   | 19.8                 | 0.3                    | -6.8                | 0.9                       |
|                                       | EBL2 (O)  | 114                 | 8%                | -23%           | -6%                  | 19.8                 | 0.3                    | -6.8                | 0.9                       |
|                                       | EBT       | 582                 | 2%                | 2%             | 2%                   | 101.6                | -2.2                   | 32.9                | 38.6                      |
|                                       | EBR1 (I)  | 183                 | -5%               | -5%            | -6%                  | 101.6                | -2.2                   | 32.9                | 38.6                      |
|                                       | EBR2 (O)  | 8                   | -1%               | -1%            | 13%                  | 101.6                | -2.2                   | 32.9                | 38.6                      |
|                                       | NBIT      | 2,666               | -11%              | -10%           | -9%                  | 32.6                 | 44.2                   | -4.1                | -3.5                      |
|                                       | NBOT      | 1,539               | 20%               | 16%            | 13%                  | 23.0                 | 21.0                   | 6.5                 | 5.7                       |
|                                       | NBOR      | 76                  | -2%               | 85%            | 88%                  | 23.0                 | 21.0                   | 6.5                 | 5.7                       |
|                                       | SBIL      | 71                  | -5%               | -42%           | -8%                  | 44.8                 | 8.2                    | -36.2               | -28.0                     |
|                                       | SBIT      | 2,033               | 3%                | -3%            | -2%                  | 44.8                 | 8.2                    | -36.2               | -28.0                     |
|                                       | SBOT      | 1,153               | 2%                | 9%             | 4%                   | 19.8                 | 6.1                    | -13.3               | -13.0                     |
| Roosevelt Blvd & Front St             | WBL1      | 63                  | -4%               | -4%            | -4%                  | 48.0                 | 22.6                   | -18.9               | -19.5                     |
|                                       | WBL2      | 64                  | 13%               | 20%            | 19%                  | 48.0                 | 22.6                   | -18.9               | -19.5                     |
|                                       | WBT       | 631                 | 2%                | 19%            | 19%                  | 48.0                 | 22.6                   | -18.9               | -19.5                     |
|                                       | WBR1      | 14                  | 2%                | 5%             | 5%                   | 58.7                 | 1.7                    | 22.3                | 22.3                      |
|                                       | WBR2      | 4                   | 25%               | 20%            | 18%                  | 58.7                 | 1.7                    | 22.3                | 22.3                      |
|                                       | NBIL1     | 207                 | 2%                | 55%            | 55%                  | 33.4                 | 88.4                   | -27.1               | -27.2                     |
|                                       | NBIT      | 2,523               | -11%              | -15%           | -13%                 | 33.4                 | 88.4                   | -16.9               | -16.5                     |
|                                       | NBOT      | 1,646               | 19%               | 13%            | 12%                  | 17.2                 | 19.7                   | -0.4                | 1.0                       |
|                                       | SBIT      | 1,891               | 1%                | -1%            | 0%                   | 15.8                 | 58.2                   | 22.1                | 25.6                      |
|                                       | SBOT      | 1,249               | 4%                | 1%             | -2%                  | 11.0                 | 50.5                   | 32.6                | 38.1                      |
| Roosevelt Blvd & Rising Sun Ave       | SBOR      | 51                  | 5%                | 4%             | 3%                   | 11.0                 | 50.5                   | 32.6                | 38.1                      |
|                                       | EBL1 (I)  | 22                  | 35%               | 93%            | 273%                 | 21.5                 | -4.1                   | 45.7                | 71.3                      |
|                                       | EBL2 (O)  | 18                  | -3%               | 39%            | 3%                   | 21.5                 | -4.1                   | 45.7                | 71.3                      |
|                                       | EBT       | 175                 | 1%                | 2%             | 2%                   | 79.4                 | 17.3                   | 2.4                 | 4.0                       |
|                                       | EBR1 (I)  | 145                 | -4%               | -5%            | -4%                  | 79.4                 | 17.3                   | 2.4                 | 4.0                       |
|                                       | EBR2 (O)  | 51                  | 8%                | 11%            | 11%                  | 79.4                 | 17.3                   | 2.4                 | 4.0                       |
|                                       | WBL1 (I)  | 17                  | -5%               | -7%            | -9%                  | 68.5                 | 23.7                   | -68.0               | -67.7                     |
|                                       | WBL2 (O)  | 38                  | 12%               | -56%           | -56%                 | 68.5                 | 23.7                   | -68.0               | -67.7                     |
|                                       | WBT       | 352                 | 5%                | 5%             | 5%                   | 127.1                | 17.1                   | -11.7               | -1.9                      |
|                                       | WBR1 (I)  | 112                 | 1%                | -1%            | 1%                   | 127.1                | 17.1                   | -11.7               | -1.9                      |
|                                       | WBR2 (O)  | 52                  | -10%              | -10%           | -14%                 | 127.1                | 17.1                   | -11.7               | -1.9                      |
|                                       | NBIL1     | 231                 | 6%                | -              | -                    | 64.6                 | 68.5                   | -                   | -                         |
|                                       | NBIT      | 2,291               | -13%              | -5%            | -3%                  | 64.6                 | 68.5                   | -45.2               | -44.4                     |
|                                       | NBOT      | 1,554               | 20%               | 16%            | 13%                  | 0.1                  | 2.8                    | 26.3                | 24.8                      |
|                                       | SBIL      | 134                 | 7%                | 42%            | 46%                  | 27.8                 | 20.3                   | 151.8               | 200.2                     |
| Roosevelt Blvd & B St Michigan U-Turn | SBIT      | 1,732               | 1%                | -1%            | 0%                   | 27.8                 | 20.3                   | 151.8               | 200.2                     |
|                                       | SBOT      | 1,216               | 3%                | 2%             | -1%                  | 20.1                 | 15.4                   | 137.6               | 124.9                     |
|                                       | SBOR      | 43                  | 4%                | 298%           | 297%                 | 20.1                 | 15.4                   | 137.6               | 124.9                     |
|                                       | WBR       | -                   | -                 | -              | -                    | -                    | 0.0                    | 0.0                 | 0.0                       |
|                                       | NBIU1 (I) | -                   | -                 | -              | -                    | -                    | 0.0                    | 35.3                | 44.4                      |
|                                       | NBIU2 (O) | -                   | -                 | -              | -                    | -                    | 0.0                    | 35.3                | 44.4                      |
|                                       | NBIT      | -                   | -                 | -              | -                    | -                    | 0.0                    | 58.0                | 59.7                      |
| Roosevelt Blvd & B St Michigan U-Turn | NBOT      | -                   | -                 | -              | -                    | -                    | 0.0                    | 143.9               | 135.6                     |
|                                       | NBOR      | -                   | -                 | -              | -                    | -                    | 0.0                    | 143.9               | 135.6                     |
|                                       | SBIT      | -                   | -                 | -              | -                    | -                    | 0.0                    | 9.4                 | 11.9                      |
|                                       | SBOT      | -                   | -                 | -              | -                    | -                    | 0.0                    | 8.7                 | 9.0                       |

% >10% reduction in volume throughput

% >10% increase in volume throughput

X.X Queue decreased by 20% and atleast 50 feet compared to Existing

X.X Queue increased by 20% and atleast 50 feet compared to Existing

| Intersection                                       | Movement  | Volumes             |                   |                |                      | Average Queues       |                        |                     |                           |
|--|-----------|---------------------|-------------------|----------------|----------------------|----------------------|------------------------|---------------------|---------------------------|
|  |           | 2015 Existing (vph) | 2025 No Build Δ % | 2025 Build Δ % | 2025 Build S BAT Δ % | 2015 Existing (feet) | 2025 No Build Δ (feet) | 2025 Build Δ (feet) | 2025 Build S BAT Δ (feet) |
| Roosevelt Blvd & C Street                          | EBL1 (I)  | 69                  | 4%                | 14%            | 21%                  | 32.9                 | 3.1                    | 10.9                | 10.1                      |
|  | EBL2 (O)  | 138                 | 14%               | 12%            | 14%                  | 32.9                 | 3.1                    | 10.9                | 10.1                      |
|  | EBT       | 368                 | 3%                | 4%             | 3%                   | 50.8                 | 21.3                   | 30.5                | 30.7                      |
|  | EBR1 (I)  | 28                  | -8%               | -9%            | -8%                  | 50.8                 | 21.3                   | 30.5                | 30.7                      |
|  | EBR2 (O)  | 19                  | -5%               | 2%             | 1%                   | 50.8                 | 21.3                   | 30.5                | 30.7                      |
|  | WBL1 (I)  | 37                  | -13%              | -11%           | -12%                 | 8.3                  | -1.2                   | 1.3                 | 1.1                       |
|  | WBL2 (O)  | 33                  | 23%               | 4%             | 5%                   | 8.3                  | -1.2                   | 1.3                 | 1.1                       |
|  | WBT       | 274                 | -1%               | -1%            | -1%                  | 75.0                 | 31.6                   | 91.6                | 91.3                      |
|  | WBR1 (I)  | 56                  | 7%                | 4%             | 5%                   | 75.0                 | 31.6                   | 91.6                | 91.3                      |
|  | WBR2 (O)  | 20                  | 14%               | 19%            | 14%                  | 75.0                 | 31.6                   | 96.3                | 96.0                      |
|  | NBIL1     | 51                  | 10%               | -12%           | -12%                 | 80.0                 | -0.1                   | -12.4               | -9.5                      |
|  | NBIT      | 2,362               | -12%              | -10%           | -8%                  | 78.8                 | -0.2                   | -12.5               | -9.5                      |
|  | NBOT      | 1,591               | 19%               | 16%            | 13%                  | 35.5                 | 36.0                   | 69.1                | 63.5                      |
|  | NBOR      | 51                  | -9%               | -9%            | -8%                  | 35.5                 | 36.0                   | 69.1                | 63.5                      |
|  | SBIL      | 165                 | 2%                | 4%             | 8%                   | 15.3                 | 3.3                    | 25.8                | 36.5                      |
|  | SBIT      | 1,805               | 2%                | 1%             | 3%                   | 41.5                 | -6.3                   | 85.0                | 85.0                      |
|  | SBOT      | 1,178               | 5%                | 7%             | 0%                   | 36.8                 | 2.1                    | 76.0                | 67.9                      |
|  | SBOR      | 155                 | 6%                | 9%             | 9%                   | 36.8                 | 2.1                    | 76.0                | 67.9                      |
| Roosevelt Blvd & Rorer St - D St                   | WBR       | 39                  | -3%               | 1%             | 1%                   | 0.3                  | 0.0                    | -0.2                | -0.2                      |
|  | NBIT      | 2,501               | -12%              | -10%           | -7%                  | 36.5                 | -5.7                   | -32.8               | -32.5                     |
|  | NBOT      | 1,756               | 18%               | 15%            | 12%                  | 17.8                 | 3.4                    | -12.3               | -12.5                     |
|  | NBOR      | 5                   | -19%              | -13%           | -13%                 | 17.8                 | 3.4                    | -12.3               | -12.5                     |
|  | SBIT      | 1,955               | 3%                | 2%             | 5%                   | 59.8                 | -43.2                  | -55.0               | -54.7                     |
|  | SBOT      | 1,135               | 6%                | 8%             | 1%                   | 24.4                 | -14.1                  | -18.0               | -16.7                     |
| Roosevelt Blvd & F Street                          | EBL1 (I)  | 76                  | 56%               | 73%            | 98%                  | 16.3                 | 19.1                   | 77.7                | 83.6                      |
|  | EBL2 (O)  | 83                  | 68%               | 34%            | -6%                  | 16.3                 | 19.1                   | 77.7                | 83.6                      |
|  | EBL3      | 21                  | -100%             | -94%           | 0%                   | 16.3                 | 19.1                   | 77.7                | 83.6                      |
|  | EBT       | 343                 | 4%                | 4%             | 1%                   | 84.0                 | 81.5                   | 224.0               | 336.2                     |
|  | EBR1 (I)  | 106                 | -7%               | -9%            | -11%                 | 84.0                 | 81.5                   | 224.0               | 336.2                     |
|  | EBR2 (O)  | 3                   | 15%               | 6%             | 6%                   | 84.0                 | 81.5                   | 224.0               | 336.2                     |
|  | WBL1 (I)  | 26                  | 7%                | 14%            | 12%                  | 51.6                 | -9.6                   | -24.0               | -22.9                     |
|  | WBL2 (O)  | 51                  | 25%               | 38%            | 50%                  | 51.6                 | -9.6                   | -24.0               | -22.9                     |
|  | WBT       | 322                 | 16%               | 16%            | 16%                  | 135.8                | 3.4                    | -40.4               | -40.5                     |
|  | WBR1 (I)  | 8                   | -10%              | -9%            | -8%                  | 135.8                | 3.4                    | -40.4               | -40.5                     |
|  | WBR2 (O)  | 10                  | 29%               | 34%            | 33%                  | 135.8                | 3.4                    | -40.4               | -40.5                     |
|  | NBIL1     | 291                 | -17%              | -9%            | -8%                  | 259.6                | 156.5                  | -178.9              | -180.6                    |
|  | NBIT      | 2,204               | -10%              | -8%            | -7%                  | 103.4                | 196.9                  | -73.2               | -70.2                     |
|  | NBOT      | 1,710               | 15%               | 16%            | 13%                  | 16.1                 | 44.8                   | 28.6                | 39.8                      |
|  | NBOBR     | 21                  | -100%             | -100%          | 3%                   | 15.7                 | 45.2                   | 28.9                | 40.2                      |
|  | NBOR      | 35                  | 5%                | 13%            | 14%                  | 16.1                 | 44.8                   | 28.6                | 39.8                      |
|  | SBIL      | 125                 | 67%               | 56%            | 60%                  | 77.6                 | 32.4                   | 244.5               | 376.9                     |
|  | SBIT      | 1,852               | 9%                | 5%             | 12%                  | 77.6                 | 32.4                   | 244.5               | 376.9                     |
|  | SBOT      | 1,130               | 0%                | 9%             | -6%                  | 43.6                 | 0.7                    | 130.9               | 98.9                      |
|  | SBOR      | 63                  | -2%               | -6%            | -7%                  | 43.6                 | 0.7                    | 130.9               | 98.9                      |
| Roosevelt Blvd & Whitaker Ave (South) - Garland St | EBR       | 19                  | 0%                | -2%            | -1%                  | 0.0                  | 0.0                    | 0.0                 | 0.0                       |
|  | WBR1 (I)  | 492                 | -9%               | 3%             | 4%                   | 85.6                 | 256.9                  | -0.4                | 0.7                       |
|  | WBR2 (O)  | 129                 | -12%              | -11%           | -16%                 | 85.6                 | 256.9                  | -0.4                | 0.7                       |
|  | NBIT      | 2,306               | -9%               | -6%            | -4%                  | 95.7                 | -5.1                   | -87.7               | -86.5                     |
|  | NBOT      | 1,794               | 9%                | 14%            | 13%                  | 61.2                 | 137.2                  | -54.0               | -39.8                     |
|  | NBOR      | 20                  | 497%              | 306%           | -2%                  | 61.2                 | 137.2                  | -54.0               | -39.8                     |
|  | SBU1 (I)  | 3                   | -100%             | -100%          | -100%                | 68.3                 | -27.9                  | 0.3                 | 4.8                       |
|  | SBU2 (O)  | 4                   | -21%              | -100%          | -7%                  | 68.3                 | -27.9                  | 0.3                 | 4.8                       |
|  | SBL       | 438                 | -14%              | -2%            | 3%                   | 68.3                 | -27.9                  | 0.3                 | 4.8                       |
|  | SBIT      | 1,817               | 14%               | 9%             | 18%                  | 35.0                 | -24.2                  | -10.8               | -7.8                      |
|  | SBOT      | 1,177               | 0%                | 8%             | -6%                  | 20.7                 | -15.1                  | -18.1               | -10.8                     |
|  | SBOR      | 2                   | -50%              | -44%           | -38%                 | 20.7                 | -15.1                  | -18.1               | -10.8                     |
| Roosevelt Blvd & Whitaker Ave (North) - Adams Ave  | EBL1 (I)  | 179                 | 2%                | -96%           | -93%                 | 0.2                  | 29.0                   | 0.1                 | 0.0                       |
|  | EBL2 (O)  | 514                 | -10%              | -17%           | -17%                 | 0.2                  | 29.0                   | 0.1                 | 0.0                       |
|  | EBR1 (I)  | 145                 | 8%                | 157%           | 151%                 | 39.3                 | 10.1                   | 36.2                | 33.4                      |
|  | EBR2 (O)  | 13                  | 34%               | 181%           | 218%                 | 45.3                 | 11.3                   | 38.3                | 35.4                      |
|  | NBIU1 (I) | 0                   | -100%             | -100%          | -100%                | 63.9                 | -3.0                   | -0.2                | 0.2                       |
|  | NBIU2 (O) | 1                   | -83%              | -83%           | -83%                 | 63.9                 | -3.0                   | -0.2                | 0.2                       |
|  | NBIL      | 358                 | 10%               | 9%             | 16%                  | 63.9                 | -3.0                   | -0.2                | 0.2                       |
|  | NBIT      | 2,448               | -13%              | -7%            | -6%                  | 108.2                | 64.1                   | 12.6                | 15.2                      |
|  | NBOT      | 1,919               | 7%                | 13%            | 11%                  | 26.9                 | 30.2                   | 15.5                | 87.7                      |
|  | SBIT      | 2,141               | 7%                | -5%            | 5%                   | 93.8                 | 64.3                   | 7.0                 | 14.6                      |
|  | SBOT      | 1,299               | 2%                | 8%             | -6%                  | 66.5                 | 33.5                   | 18.7                | 4.4                       |
|  | SBOR      | 678                 | -22%              | -16%           | -20%                 | 66.5                 | 33.5                   | 18.7                | 4.4                       |

% >10% reduction in volume throughput  
 % >10% increase in volume throughput

X.X Queue decreased by 20% and atleast 50 feet compared to Existing  
 X.X Queue increased by 20% and atleast 50 feet compared to Existing

| Intersection                                   | Movement  | Volumes             |                   |                |                      | Average Queues       |                        |                     |                           |
|--|-----------|---------------------|-------------------|----------------|----------------------|----------------------|------------------------|---------------------|---------------------------|
|  |           | 2015 Existing (vph) | 2025 No Build Δ % | 2025 Build Δ % | 2025 Build S BAT Δ % | 2015 Existing (feet) | 2025 No Build Δ (feet) | 2025 Build Δ (feet) | 2025 Build S BAT Δ (feet) |
| Roosevelt BLvd & Tower Blvd                    | EBR       | 160                 | 3%                | 4%             | 4%                   | 10.1                 | 0.2                    | 0.0                 | -0.6                      |
|  | NBIU1 (I) | 122                 | -12%              | -99%           | -99%                 | 70.6                 | -23.2                  | -42.9               | -43.5                     |
|  | NBIU2 (O) | 19                  | -12%              | -89%           | -89%                 | 69.8                 | -22.6                  | -42.1               | -42.7                     |
|  | NBIL      | 180                 | 11%               | 19%            | 19%                  | 70.8                 | -21.3                  | -40.8               | -41.4                     |
|  | NBIT      | -                   | -                 | -              | -                    | 0.0                  | 0.0                    | 8.6                 | 9.5                       |
|  | NBOT      | -                   | -                 | -              | -                    | 0.0                  | 0.0                    | 10.0                | 243.7                     |
|  | SBIU1 (I) | -                   | -                 | -              | -                    | 0.0                  | 0.0                    | 15.3                | 18.3                      |
|  | SBIU1 (O) | -                   | -                 | -              | -                    | 0.0                  | 0.0                    | 15.3                | 18.3                      |
|  | SBIT      | 2,008               | 9%                | 2%             | 12%                  | 26.7                 | -22.1                  | -3.7                | 6.4                       |
|  | SBOT      | 1,790               | -6%               | 1%             | -11%                 | 30.8                 | -28.4                  | -5.4                | -6.4                      |
| Roosevelt Blvd & Langdon St                    | SBOR      | 116                 | -21%              | -20%           | -20%                 | 30.1                 | -29.0                  | -5.3                | -6.3                      |
|  | EBL1 (I)  | 146                 | -8%               | 24%            | 11%                  | 3.0                  | 8.1                    | -1.6                | -1.5                      |
|  | EBL2 (O)  | 231                 | -12%              | 8%             | 14%                  | 4.8                  | 0.1                    | -4.1                | -4.0                      |
|  | EBT       | 385                 | -12%              | 13%            | 12%                  | 228.4                | 198.3                  | 74.3                | 96.8                      |
|  | EBR1 (I)  | 46                  | 0%                | 34%            | 22%                  | 228.4                | 198.3                  | 74.3                | 96.8                      |
|  | EBR2 (O)  | 1                   | 8%                | 125%           | 208%                 | 228.4                | 198.3                  | 74.3                | 96.8                      |
|  | WBL1 (I)  | 36                  | -3%               | -7%            | -16%                 | 4.9                  | -1.6                   | -1.4                | -1.8                      |
|  | WBL2 (O)  | 35                  | -4%               | -3%            | 5%                   | 3.2                  | -1.0                   | -0.1                | -0.2                      |
|  | WBT       | 85                  | -8%               | -8%            | -8%                  | 35.2                 | -6.1                   | -9.5                | -9.2                      |
|  | WBR1 (I)  | 26                  | -16%              | -1%            | -17%                 | 35.2                 | -6.1                   | -9.5                | -9.2                      |
|  | WBR2 (O)  | 24                  | -17%              | -32%           | -14%                 | 35.2                 | -6.1                   | -9.5                | -9.2                      |
|  | NBLU1 (I) | 1                   | 5680%             | -80%           | -80%                 | 18.4                 | 5.7                    | -3.0                | 15.6                      |
|  | NBLU2 (O) | 0                   | -                 | -              | -                    | 18.4                 | 5.7                    | -3.0                | 15.6                      |
|  | NBL       | 54                  | -10%              | 11%            | 69%                  | 18.4                 | 5.7                    | -3.0                | 15.6                      |
|  | NBIT      | 2,274               | -19%              | -12%           | -10%                 | 133.0                | 297.5                  | -122.5              | -123.3                    |
|  | NBOT      | 2,298               | 7%                | 16%            | 14%                  | 553.7                | -222.4                 | -480.5              | -373.5                    |
|  | NBOR      | 10                  | -14%              | 46%            | 45%                  | 553.7                | -222.4                 | -480.5              | -373.5                    |
| Roosevelt Blvd & Summerdale Ave - Adams Ave    | SBLU1 (I) | 25                  | 36%               | -              | -                    | 10.3                 | 4.5                    | -                   | -                         |
|  | SBLU2 (O) | 0                   | -                 | -              | -                    | 10.3                 | 4.5                    | -                   | -                         |
|  | SBL       | 7                   | -25%              | -              | -                    | 10.3                 | 4.5                    | -                   | -                         |
|  | SBIT      | 1,912               | 9%                | 8%             | 22%                  | 87.1                 | -66.9                  | -53.8               | -53.6                     |
|  | SBOT      | 1,827               | -5%               | 1%             | -12%                 | 130.2                | -88.6                  | -38.5               | -28.7                     |
|  | SBOR      | 327                 | 6%                | 7%             | -3%                  | 129.2                | -88.6                  | -38.5               | -29.0                     |
|  | EBL1 (I)  | 3                   | 38%               | 27%            | 19%                  | 0.0                  | 0.0                    | 0.0                 | 0.0                       |
|  | EBL2 (O)  | 4                   | 65%               | 93%            | 98%                  | 0.0                  | 0.0                    | 0.0                 | 0.0                       |
|  | EBT       | 186                 | 19%               | 20%            | 20%                  | 173.6                | -118.0                 | -119.3              | -118.4                    |
|  | EBR1 (I)  | 164                 | -19%              | -20%           | -29%                 | 173.6                | -118.0                 | -119.3              | -118.4                    |
|  | EBR2 (O)  | 295                 | -17%              | -17%           | -12%                 | 173.6                | -118.0                 | -119.3              | -118.4                    |
|  | WBL1 (I)  | 0                   | -                 | -              | -                    | 0.0                  | 1.0                    | 2.2                 | 18.1                      |
|  | WBL2 (O)  | 3                   | 2257%             | 14383%         | 14403%               | 0.1                  | 3.4                    | 0.5                 | 10.1                      |
|  | WBT       | 475                 | -54%              | -55%           | -55%                 | 161.9                | -129.6                 | -104.7              | -101.5                    |
|  | WBR1 (I)  | 19                  | -41%              | -41%           | -41%                 | 161.9                | -48.3                  | -55.0               | -39.3                     |
|  | WBR2 (O)  | 7                   | -38%              | -31%           | -31%                 | 161.9                | -48.3                  | -55.0               | -39.3                     |
|  | NBLU1 (I) | 0                   | -                 | -              | -                    | 87.7                 | 393.0                  | -                   | -                         |
|  | NBLU2 (O) | 4                   | -66%              | -              | -                    | 87.6                 | 393.0                  | -                   | -                         |
|  | NBL       | 383                 | -18%              | -              | -                    | 92.1                 | 394.1                  | -                   | -                         |
|  | NBIT      | 2,102               | -19%              | 5%             | 5%                   | 163.5                | -74.9                  | -117.4              | -117.6                    |
|  | NBOT      | 2,193               | 6%                | 10%            | 10%                  | 235.6                | -8.9                   | -139.4              | -89.3                     |
|  | NBOR      | 395                 | -6%               | 28%            | 27%                  | 2.1                  | 0.0                    | -1.7                | -1.2                      |
|  | SBLU1 (I) | 0                   | 0%                | -              | -                    | 27.2                 | 23.7                   | -                   | -                         |
|  | SBLU2 (O) | 2                   | 19%               | -              | -                    | 27.2                 | 23.7                   | -                   | -                         |
|  | SBL       | 107                 | -13%              | -              | -                    | 27.2                 | 23.7                   | -                   | -                         |
| Roosevelt Blvd & Allengrove St Michigan U-turn | SBIT      | 1,733               | 15%               | 12%            | 28%                  | 112.9                | -103.0                 | -106.7              | -106.8                    |
|  | SBOT      | 1,502               | 22%               | 30%            | 12%                  | 124.8                | -81.3                  | -90.5               | -83.2                     |
|  | SBOR      | 40                  | 71%               | 1071%          | 1072%                | 32.9                 | 10.7                   | 1.5                 | 8.7                       |
|  | WBR       | -                   | -                 | -              | -                    | -                    | -                      | 0.1                 | 0.1                       |
|  | NBIU1 (I) | -                   | -                 | -              | -                    | -                    | -                      | 111.0               | 76.1                      |
|  | NBIU2 (O) | -                   | -                 | -              | -                    | -                    | -                      | 111.0               | 76.1                      |
|  | NBIT      | -                   | -                 | -              | -                    | -                    | -                      | 1.0                 | 1.0                       |
|  | NBOT      | -                   | -                 | -              | -                    | -                    | -                      | 17.6                | 12.6                      |
|  | SBIT      | -                   | -                 | -              | -                    | -                    | -                      | 36.4                | 4.8                       |
|  | SBOT      | -                   | -                 | -              | -                    | -                    | -                      | 53.9                | 7.6                       |

% >10% reduction in volume throughput  
 % >10% increase in volume throughput

X.X Queue decreased by 20% and atleast 50 feet compared to Existing  
 X.X Queue increased by 20% and atleast 50 feet compared to Existing

| Intersection                                       | Movement | Volumes             |                   |                |                      | Average Queues       |                        |                     |                           |
|--|----------|---------------------|-------------------|----------------|----------------------|----------------------|------------------------|---------------------|---------------------------|
|  |          | 2015 Existing (vph) | 2025 No Build Δ % | 2025 Build Δ % | 2025 Build S BAT Δ % | 2015 Existing (feet) | 2025 No Build Δ (feet) | 2025 Build Δ (feet) | 2025 Build S BAT Δ (feet) |
| Roosevelt Blvd & Pratt Street                      | EBL1 (I) | 10                  | -2%               | -68%           | -66%                 | 40.6                 | -26.0                  | -17.4               | -16.9                     |
|  | EBL2 (O) | 19                  | -48%              | -25%           | -26%                 | 40.6                 | -26.0                  | -17.4               | -16.9                     |
|  | EBT      | 73                  | 7%                | 7%             | 7%                   | 15.2                 | 0.8                    | 7.4                 | 7.4                       |
|  | EBR1 (I) | 10                  | 11%               | 16%            | 47%                  | 15.2                 | 0.8                    | 7.4                 | 7.4                       |
|  | EBR2 (O) | 19                  | 31%               | 29%            | 12%                  | 15.2                 | 0.8                    | 7.4                 | 7.4                       |
|  | WBL1 (I) | 60                  | 26%               | 22%            | 84%                  | 0.1                  | 0.4                    | 19.1                | 18.9                      |
|  | WBL2 (O) | 94                  | 39%               | 9%             | -31%                 | 0.1                  | 0.4                    | 19.1                | 18.9                      |
|  | WBT      | 319                 | -6%               | -17%           | -19%                 | 181.7                | -74.1                  | -78.2               | -82.1                     |
|  | WBR1 (I) | 121                 | -26%              | 44%            | 39%                  | 181.7                | -74.1                  | -78.2               | -82.1                     |
|  | WBR2 (O) | 0                   | -                 | -              | -                    | 181.7                | -74.1                  | -78.2               | -82.1                     |
|  | NBIL1    | 1                   | 200%              | 16300%         | 16380%               | 49.1                 | 14.0                   | -31.9               | -32.2                     |
|  | NBIT     | 2,124               | -15%              | -11%           | -11%                 | 49.1                 | 14.0                   | -31.9               | -32.2                     |
|  | NBOT     | 2,200               | 3%                | 7%             | 7%                   | 80.2                 | 12.8                   | 29.6                | -2.4                      |
|  | NBOR     | 151                 | -2%               | 2%             | -8%                  | 80.2                 | 12.8                   | 29.6                | -2.4                      |
|  | SBIL     | 195                 | -61%              | -65%           | -66%                 | 50.3                 | -35.1                  | 27.2                | 25.8                      |
|  | SBIT     | 1,767               | 9%                | 2%             | 15%                  | 50.3                 | -35.1                  | 27.2                | 25.8                      |
|  | SBOT     | 1,309               | -5%               | 8%             | -9%                  | 39.3                 | -10.1                  | 10.8                | 5.3                       |
|  | SBOR     | 23                  | 285%              | -33%           | -4%                  | 39.3                 | -10.1                  | 10.8                | 5.3                       |
| Roosevelt Blvd & Bridge Street                     | EBL1 (I) | 13                  | -29%              | -34%           | -35%                 | 1.5                  | 15.3                   | 20.1                | 19.2                      |
|  | EBL2 (O) | 36                  | 80%               | 29%            | 27%                  | 1.5                  | 15.3                   | 20.1                | 19.2                      |
|  | EBT      | 135                 | 6%                | 7%             | 7%                   | 31.2                 | 14.1                   | 21.4                | 21.0                      |
|  | EBR1 (I) | 41                  | 27%               | 30%            | 35%                  | 31.2                 | 14.1                   | 21.4                | 21.0                      |
|  | EBR2 (O) | 22                  | 26%               | 29%            | 18%                  | 31.2                 | 14.1                   | 21.4                | 21.0                      |
|  | WBL1 (I) | 42                  | -66%              | -88%           | -76%                 | 54.1                 | 26.1                   | 13.6                | 14.9                      |
|  | WBL2 (O) | 55                  | 123%              | -50%           | -60%                 | 54.1                 | 26.1                   | 13.6                | 14.9                      |
|  | WBT      | 170                 | 14%               | -20%           | -19%                 | 51.4                 | 9.8                    | -17.5               | -17.0                     |
|  | WBR1 (I) | 86                  | 12%               | -43%           | -38%                 | 51.4                 | 9.8                    | -17.5               | -17.0                     |
|  | WBR2 (O) | 0                   | -                 | -              | -                    | 51.4                 | 9.8                    | -17.5               | -17.0                     |
|  | NBIL1    | 172                 | 13%               | -10%           | -11%                 | 76.8                 | 138.4                  | -12.1               | -11.3                     |
|  | NBIT     | 2,086               | -18%              | -9%            | -8%                  | 76.8                 | 138.4                  | -12.1               | -11.3                     |
|  | NBOT     | 2,099               | 7%                | 11%            | 10%                  | 30.3                 | 2.9                    | 27.6                | 22.4                      |
|  | NBOR     | 125                 | -71%              | -59%           | -56%                 | 30.3                 | 2.9                    | 27.6                | 22.4                      |
|  | SBIL     | 10                  | 973%              | 1211%          | 1186%                | 27.0                 | -17.2                  | 50.6                | 76.3                      |
|  | SBIT     | 1,834               | 4%                | -3%            | 9%                   | 27.0                 | -17.2                  | 50.6                | 76.3                      |
|  | SBOT     | 1,304               | -7%               | 8%             | -8%                  | 26.1                 | 14.3                   | 55.2                | 37.9                      |
|  | SBOR     | 18                  | -14%              | -8%            | -5%                  | 26.1                 | 14.3                   | 55.2                | 37.9                      |
| Roosevelt Blvd & Sanger St Ped                     | NBOT     | 2,141               | 8%                | 11%            | 10%                  | 14.7                 | 1.5                    | 46.6                | 41.9                      |
|  | SBOT     | 1,288               | -8%               | 8%             | -8%                  | 2.7                  | 6.8                    | 1.4                 | 0.5                       |
|  | SBOR     | 3                   | 24%               | 27%            | 30%                  | 2.7                  | 6.8                    | 1.4                 | 0.5                       |
| Roosevelt Blvd NB & Oxford Circle & Oxford Ave     | EBL      | 84                  | 67%               | 39%            | 44%                  | 6.8                  | 5.5                    | 6.3                 | 6.0                       |
|  | EBT      | 0                   | -                 | -              | -                    | 6.8                  | 5.5                    | 6.3                 | 6.0                       |
|  | EBR      | 381                 | 14%               | 5%             | 6%                   | 6.8                  | 5.5                    | 6.3                 | 6.0                       |
|  | WBR      | 393                 | 9%                | 20%            | 22%                  | 5.9                  | 18.4                   | 10.9                | 11.7                      |
|  | NBOT     | 2,103               | 4%                | 8%             | 7%                   | 123.3                | 10.1                   | -44.0               | -45.5                     |
|  | NBOR     | 105                 | 59%               | 49%            | 48%                  | 123.3                | 10.1                   | -44.0               | -45.5                     |
|  | NBOHR    | 0                   | -                 | -              | -                    | 123.3                | 10.1                   | -44.0               | -45.5                     |
| Roosevelt Blvd NB & Oxford Circle & Cheltenham Ave | WBR      | 124                 | -43%              | 0%             | -2%                  | 209.3                | 22.4                   | -11.9               | -22.4                     |
|  | NBOL     | 343                 | 15%               | 14%            | 15%                  | 12.4                 | 6.8                    | 22.9                | 22.2                      |
|  | NBOT     | 1,843               | 6%                | 9%             | 7%                   | 14.0                 | 7.0                    | 19.9                | 19.1                      |
|  | NBT      | 390                 | 8%                | 20%            | 22%                  | 274.1                | 10.9                   | -226.0              | -226.9                    |
|  | NBR      | 331                 | -3%               | 0%             | -1%                  | 2.1                  | 1.4                    | 35.6                | 34.8                      |
| Roosevelt Blvd SB & Oxford Circle                  | SBOL     | 56                  | 173%              | 104%           | 116%                 | 2.6                  | 0.2                    | 14.5                | 9.9                       |
|  | SBOT     | 1,017               | -13%              | 10%            | -10%                 | 2.6                  | 0.4                    | 14.8                | 10.0                      |
|  | SBT      | 562                 | -2%               | -1%            | -2%                  | 183.5                | 42.4                   | -39.4               | -61.6                     |
|  | SBR      | 274                 | 8%                | 1%             | 0%                   | 183.5                | 42.4                   | -39.4               | -61.6                     |
| Roosevelt Blvd SB & Oxford Circle & Castor Ave     | EBR      | 367                 | 11%               | 5%             | 4%                   | 16.7                 | 7.0                    | 8.4                 | 3.0                       |
|  | WBL      | 94                  | -10%              | 66%            | 79%                  | 9.0                  | 1.9                    | 9.2                 | 8.7                       |
|  | WBT      | 295                 | 3%                | 5%             | 4%                   | 9.0                  | 1.9                    | 9.2                 | 8.7                       |
|  | WBR      | 467                 | 6%                | 11%            | 11%                  | 24.8                 | -1.8                   | -4.7                | -4.6                      |
|  | SBOT     | 980                 | -2%               | 10%            | -12%                 | 25.5                 | 49.2                   | 54.5                | 27.3                      |
|  | SBOR     | 75                  | -35%              | -20%           | -18%                 | 23.5                 | 50.3                   | 56.6                | 29.2                      |
|  | SBOHR    | 17                  | -25%              | -29%           | -27%                 | 23.6                 | 50.0                   | 56.3                | 28.9                      |

% >10% reduction in volume throughput  
 % >10% increase in volume throughput

X.X Queue decreased by 20% and atleast 50 feet compared to Existing  
 X.X Queue increased by 20% and atleast 50 feet compared to Existing

| Intersection                      | Movement | Volumes             |                   |                |                      | Average Queues       |                        |                     |                           |
|-----------------------------------|----------|---------------------|-------------------|----------------|----------------------|----------------------|------------------------|---------------------|---------------------------|
|                                   |          | 2015 Existing (vph) | 2025 No Build Δ % | 2025 Build Δ % | 2025 Build S BAT Δ % | 2015 Existing (feet) | 2025 No Build Δ (feet) | 2025 Build Δ (feet) | 2025 Build S BAT Δ (feet) |
| Roosevelt Blvd & Large Street     | EBL1 (I) | 8                   | 486%              | -75%           | -79%                 | 21.8                 | 2.4                    | 1.5                 | 0.9                       |
|                                   | EBL2 (O) | 96                  | 3%                | -53%           | -52%                 | 21.8                 | 2.4                    | 1.5                 | 0.9                       |
|                                   | EBT      | 192                 | 21%               | 20%            | 20%                  | 46.0                 | 14.7                   | 21.7                | 21.9                      |
|                                   | EBR1 (I) | 61                  | 27%               | 28%            | 29%                  | 46.0                 | 14.7                   | 21.7                | 21.9                      |
|                                   | EBR2 (O) | 21                  | -8%               | -3%            | -8%                  | 46.0                 | 14.7                   | 21.7                | 21.9                      |
|                                   | WBL1 (I) | 16                  | 13%               | 12%            | 19%                  | 54.6                 | 0.7                    | -6.0                | -5.7                      |
|                                   | WBL2 (O) | 16                  | -4%               | -6%            | -12%                 | 54.6                 | 0.7                    | -6.0                | -5.7                      |
|                                   | WBT      | 207                 | -8%               | -8%            | -8%                  | 95.1                 | -16.0                  | -17.4               | -18.5                     |
|                                   | WBR1 (I) | 45                  | -11%              | -6%            | -6%                  | 95.1                 | -16.0                  | -17.4               | -18.5                     |
|                                   | WBR2 (O) | 66                  | 0%                | -3%            | -3%                  | 95.1                 | -16.0                  | -17.4               | -18.5                     |
|                                   | NBIL1    | 282                 | 3%                | -1%            | -2%                  | 151.7                | 23.2                   | 183.2               | 99.9                      |
|                                   | NBIT     | 1,899               | -20%              | -12%           | -11%                 | 18.8                 | 3.2                    | 180.3               | 121.0                     |
|                                   | NBOT     | 1,854               | 6%                | 9%             | 8%                   | 22.0                 | -15.0                  | 29.9                | 29.6                      |
|                                   | SBIL     | 176                 | 19%               | -37%           | -37%                 | 23.1                 | 28.2                   | 105.1               | 138.5                     |
|                                   | SBIT     | 1,770               | 8%                | 2%             | 15%                  | 21.8                 | 27.4                   | 102.8               | 136.1                     |
|                                   | SBOT     | 1,037               | -4%               | 5%             | -16%                 | 8.9                  | 12.2                   | 84.3                | 52.7                      |
|                                   | SBOR     | 48                  | 24%               | 67%            | 87%                  | 2.4                  | 9.2                    | 84.3                | 50.7                      |
| Roosevelt Blvd & Devereaux Street | EBL1 (I) | 219                 | 4%                | 6%             | 5%                   | 5.1                  | -1.1                   | -2.5                | -2.6                      |
|                                   | EBL2 (O) | 56                  | -18%              | -67%           | -68%                 | 5.1                  | -1.1                   | -2.5                | -2.6                      |
|                                   | EBT      | 530                 | 3%                | 3%             | 3%                   | 71.9                 | 4.0                    | 9.6                 | 10.1                      |
|                                   | EBR1 (I) | 7                   | 9%                | 15%            | 42%                  | 71.9                 | 4.0                    | 9.6                 | 10.1                      |
|                                   | EBR2 (O) | 8                   | 21%               | 24%            | 0%                   | 71.9                 | 4.0                    | 9.6                 | 10.1                      |
|                                   | WBL1 (I) | 128                 | -33%              | -39%           | -14%                 | 33.7                 | -16.5                  | -8.3                | -2.9                      |
|                                   | WBL2 (O) | 60                  | 58%               | 94%            | 60%                  | 33.7                 | -16.5                  | -8.3                | -2.9                      |
|                                   | WBT      | 310                 | 6%                | 28%            | 28%                  | 31.4                 | 21.9                   | 22.9                | 23.5                      |
|                                   | WBR1 (I) | 0                   | -                 | -              | -                    | 31.4                 | 21.9                   | 22.9                | 23.5                      |
|                                   | NBIL1    | 78                  | -17%              | 8%             | 25%                  | 49.6                 | -15.8                  | -27.5               | -17.0                     |
|                                   | NBIT     | 1,873               | -17%              | -14%           | -13%                 | 51.7                 | -15.2                  | -26.8               | -16.4                     |
|                                   | NBOT     | 1,890               | 0%                | 4%             | 3%                   | 44.3                 | -5.6                   | -7.5                | -8.1                      |
|                                   | NBOR     | 283                 | 33%               | 9%             | 11%                  | 44.3                 | -5.6                   | -7.5                | -8.1                      |
|                                   | SBIL     | 42                  | -21%              | -55%           | -60%                 | 27.0                 | 3.7                    | 12.2                | 25.1                      |
|                                   | SBIT     | 1,809               | 12%               | 3%             | 13%                  | 27.0                 | 3.7                    | 12.2                | 25.1                      |
|                                   | SBOT     | 1,008               | -7%               | 0%             | -19%                 | 14.7                 | -2.9                   | 27.2                | 11.9                      |
|                                   | SBOR     | 60                  | -32%              | -12%           | -11%                 | 14.9                 | -3.3                   | 27.4                | 11.7                      |
|                                   | SBOHR    | 100                 | -21%              | -              | -                    | 14.9                 | -3.0                   | -                   | -                         |
|                                   | SEBR     | 0                   | -                 | -              | -                    | 0.0                  | 0.0                    | -                   | -                         |
| Roosevelt Blvd & Bustleton Ave    | EBL1 (I) | 6                   | -47%              | -35%           | -38%                 | 45.1                 | -26.4                  | -7.5                | -6.2                      |
|                                   | EBL2 (O) | 69                  | -86%              | -71%           | -71%                 | 45.1                 | -26.4                  | -7.5                | -6.2                      |
|                                   | EBT      | 427                 | -7%               | -7%            | -7%                  | 5.3                  | -5.1                   | -3.6                | -3.1                      |
|                                   | EBR1 (I) | 151                 | 10%               | 8%             | 16%                  | 5.3                  | -5.1                   | -3.6                | -3.1                      |
|                                   | EBR2 (O) | 59                  | 23%               | 25%            | 6%                   | 5.3                  | -5.1                   | -3.6                | -3.1                      |
|                                   | WBL1 (I) | 0                   | -                 | -              | -                    | 53.1                 | 15.2                   | -28.4               | -19.3                     |
|                                   | WBL2 (O) | 99                  | -22%              | -96%           | -94%                 | 53.1                 | 15.2                   | -28.4               | -19.3                     |
|                                   | WBT      | 437                 | 7%                | -5%            | -5%                  | 0.4                  | -0.2                   | 7.0                 | 6.5                       |
|                                   | WBR1 (I) | 56                  | -28%              | -37%           | -38%                 | 0.4                  | -0.2                   | 7.0                 | 6.5                       |
|                                   | WBR2 (O) | 171                 | -51%              | -57%           | -57%                 | 0.4                  | -0.2                   | 7.0                 | 6.5                       |
|                                   | NBIL1    | 309                 | 18%               | -4%            | -5%                  | 98.8                 | 417.5                  | -81.4               | -57.4                     |
|                                   | NBIT     | 1,610               | -23%              | -17%           | -16%                 | 65.7                 | 252.8                  | -52.2               | -51.5                     |
|                                   | NBOT     | 1,606               | -4%               | -5%            | -7%                  | 51.9                 | 9.0                    | -21.1               | -22.7                     |
|                                   | SBIL     | 273                 | -41%              | -39%           | -40%                 | 115.7                | -101.7                 | -75.5               | -67.1                     |
|                                   | SBIT     | 1,700               | 12%               | 1%             | 11%                  | 45.0                 | 9.6                    | 0.5                 | 1.2                       |
| Bustleton Ave & Robbins Street    | SBOT     | 988                 | -9%               | -3%            | -20%                 | 16.5                 | 3.7                    | -0.8                | -3.9                      |
|                                   | EBL      | 161                 | -5%               | -46%           | -46%                 | 12.9                 | -7.6                   | -11.8               | -12.4                     |
|                                   | EBT      | 462                 | -15%              | -2%            | -3%                  | 12.5                 | -7.0                   | -11.3               | -11.9                     |
|                                   | WBT      | 664                 | -11%              | -21%           | -21%                 | 74.9                 | -38.8                  | 1.4                 | 1.3                       |
|                                   | WBR      | 33                  | -10%              | -19%           | -19%                 | 74.9                 | -38.8                  | 1.4                 | 1.3                       |
|                                   | NBL      | 0                   | -                 | -              | -                    | 32.0                 | -3.3                   | -                   | -                         |
|                                   | NBT      | 505                 | 15%               | 33%            | 32%                  | 32.0                 | -3.3                   | -0.9                | -0.5                      |
| Bustleton Ave & Levick Street     | NBR      | 0                   | -                 | -              | -                    | 32.0                 | -3.3                   | -0.9                | -0.5                      |
|                                   | EBT      | 609                 | 4%                | 2%             | 2%                   | 62.2                 | 4.2                    | 93.0                | 97.0                      |
|                                   | EBC      | 40                  | -5%               | -4%            | -5%                  | 62.2                 | 4.2                    | 93.0                | 97.0                      |
|                                   | WBL      | 90                  | 7%                | -              | -                    | 6.5                  | 2.8                    | -                   | -                         |
|                                   | WBT      | 556                 | 18%               | 27%            | 26%                  | 6.5                  | 2.8                    | -6.3                | -6.4                      |
|                                   | SBL      | 28                  | -100%             | -              | -                    | 24.0                 | -5.0                   | -                   | -                         |
|                                   | SBT      | 415                 | -6%               | 17%            | 17%                  | 24.0                 | -5.0                   | 8.5                 | 6.9                       |
|                                   | SBR      | 67                  | 31%               | 7%             | 7%                   | 24.0                 | -5.0                   | 8.5                 | 6.9                       |

% >10% reduction in volume throughput  
 % >10% increase in volume throughput

X.X Queue decreased by 20% and atleast 50 feet compared to Existing  
 X.X Queue increased by 20% and atleast 50 feet compared to Existing

| Intersection                       | Movement | Volumes             |                   |                |                      | Average Queues       |                        |                     |                           |
|------------------------------------|----------|---------------------|-------------------|----------------|----------------------|----------------------|------------------------|---------------------|---------------------------|
|                                    |          | 2015 Existing (vph) | 2025 No Build Δ % | 2025 Build Δ % | 2025 Build S BAT Δ % | 2015 Existing (feet) | 2025 No Build Δ (feet) | 2025 Build Δ (feet) | 2025 Build S BAT Δ (feet) |
| Roosevelt Blvd & Levick St         | WBL1 (I) | 529                 | 7%                | 7%             | 13%                  | 67.4                 | 8.9                    | 11.1                | 14.8                      |
|                                    | WBL2 (O) | 520                 | -2%               | -2%            | -8%                  | 57.9                 | 8.6                    | 11.4                | 14.8                      |
|                                    | WBR      | 47                  | -34%              | -23%           | -22%                 | 60.7                 | 8.9                    | 12.0                | 15.0                      |
|                                    | NBIT     | 1,673               | -24%              | -18%           | -17%                 | 33.7                 | 8.1                    | -21.2               | -21.1                     |
|                                    | NBOT     | 1,851               | -12%              | -13%           | -14%                 | 47.1                 | 45.3                   | -8.4                | -10.5                     |
|                                    | SBIT     | 1,463               | 1%                | -10%           | 0%                   | 256.4                | -117.3                 | -113.2              | -94.5                     |
| Roosevelt Blvd & Haribson Ave      | SBOT     | 994                 | -13%              | 2%             | -12%                 | 61.4                 | -12.2                  | 39.4                | 25.1                      |
|                                    | EBL1 (I) | 175                 | -54%              | -65%           | -65%                 | 31.9                 | -5.8                   | -30.9               | -30.5                     |
|                                    | EBL2 (O) | 9                   | -4%               | -5%            | -7%                  | 31.9                 | -5.8                   | -30.9               | -30.5                     |
|                                    | EBT      | 637                 | 7%                | 7%             | 7%                   | 44.4                 | 1.9                    | 34.2                | 34.1                      |
|                                    | EBR1 (I) | 3                   | 33%               | -19%           | 63%                  | 44.4                 | 1.9                    | 34.2                | 34.1                      |
|                                    | EBR2 (O) | 11                  | -23%              | -16%           | -36%                 | 44.4                 | 1.9                    | 34.2                | 34.1                      |
|                                    | WBL1 (I) | 102                 | 5%                | -60%           | -56%                 | 22.0                 | 3.0                    | -18.2               | -17.8                     |
|                                    | WBL2 (O) | 108                 | -6%               | -14%           | -17%                 | 22.0                 | 3.0                    | -18.2               | -17.8                     |
|                                    | WBT      | 738                 | -1%               | -1%            | -1%                  | 102.7                | 2.6                    | 6.0                 | 5.5                       |
|                                    | WBR1 (I) | 116                 | -6%               | -9%            | -9%                  | 102.7                | 2.6                    | 6.0                 | 5.5                       |
|                                    | WBR2 (O) | 327                 | 10%               | 12%            | 12%                  | 2.7                  | 0.5                    | -0.9                | 0.5                       |
|                                    | NBIL     | 93                  | 5%                | -              | -                    | 83.5                 | -12.5                  | -                   | -                         |
|                                    | NBIT     | 1,582               | -24%              | -12%           | -11%                 | 83.5                 | -12.5                  | -49.4               | -50.2                     |
|                                    | NBOT     | 1,673               | -12%              | -11%           | -13%                 | 80.6                 | 70.7                   | -0.5                | -0.8                      |
|                                    | NBOR     | 167                 | -8%               | -10%           | -10%                 | 4.3                  | 21.7                   | 15.2                | 13.6                      |
|                                    | SBIL     | 382                 | -4%               | -10%           | -10%                 | 315.5                | -195.3                 | -232.8              | -233.8                    |
| Roosevelt Blvd & Unruh Ave Ped     | SBIT     | 1,212               | 11%               | 1%             | 11%                  | 33.4                 | 13.3                   | 30.8                | 37.7                      |
|                                    | SBOT     | 1,101               | -21%              | -6%            | -17%                 | 30.8                 | 15.0                   | 54.9                | 43.9                      |
|                                    | SBOR     | 11                  | -10%              | 189%           | 190%                 | 30.8                 | 15.0                   | 54.9                | 43.9                      |
|                                    | WBR      | 17                  | -2%               | -2%            | -2%                  | 0.3                  | -0.3                   | -0.3                | -0.3                      |
|                                    | NBIT     | 1,707               | -22%              | -12%           | -11%                 | 144.8                | -142.0                 | -143.7              | -143.6                    |
|                                    | NBOT     | 2,018               | -12%              | -12%           | -14%                 | 15.6                 | -7.2                   | -14.2               | -14.2                     |
| Roosevelt Blvd & Longshore Ave Ped | NBOR     | 153                 | -10%              | -5%            | -5%                  | 15.6                 | -7.2                   | -14.2               | -14.2                     |
|                                    | SBIT     | 1,608               | 7%                | -2%            | 5%                   | 232.1                | -214.3                 | -230.8              | -230.6                    |
|                                    | SBOT     | 1,101               | -20%              | -4%            | -15%                 | 9.9                  | 2.2                    | -2.6                | -2.6                      |
|                                    | SBOR     | 74                  | 2%                | 3%             | 3%                   | 9.9                  | 2.2                    | -2.6                | -2.6                      |
|                                    | WBR      | 100                 | -14%              | -13%           | -13%                 | 4.2                  | -2.2                   | -2.2                | -2.2                      |
|                                    | NBIT     | 1,707               | -22%              | -12%           | -11%                 | 144.8                | -142.0                 | -143.7              | -143.6                    |
| Roosevelt Blvd & Tyson Ave         | NBOT     | 1,977               | -12%              | -12%           | -13%                 | 42.0                 | -27.7                  | -37.5               | -36.5                     |
|                                    | NBOR     | 60                  | -19%              | -15%           | -15%                 | 48.5                 | -31.3                  | -42.2               | -40.8                     |
|                                    | EBR      | 11                  | -11%              | -17%           | -17%                 | 0.4                  | -0.2                   | -0.2                | -0.2                      |
|                                    | SBIT     | 1,630               | 6%                | -4%            | 3%                   | 14.6                 | 0.6                    | -13.0               | -12.8                     |
|                                    | SBOT     | 1,137               | -18%              | -2%            | -13%                 | 11.0                 | 1.7                    | -5.2                | -5.5                      |
|                                    | SBOR     | 4                   | 19%               | 2%             | -5%                  | 12.6                 | 1.6                    | -5.6                | -5.9                      |
| Roosevelt Blvd & Friendship St Ped | EBL1 (I) | 125                 | 20%               | 15%            | 8%                   | 57.4                 | 5.1                    | -19.9               | -20.9                     |
|                                    | EBL2 (O) | 17                  | 40%               | 74%            | 65%                  | 57.4                 | 5.1                    | -19.9               | -20.9                     |
|                                    | EBT      | 474                 | 8%                | 9%             | 9%                   | 55.8                 | 28.7                   | 39.8                | 41.1                      |
|                                    | EBR1 (I) | 15                  | 35%               | 22%            | 34%                  | 55.8                 | 28.7                   | 39.8                | 41.1                      |
|                                    | EBR2 (O) | 4                   | -11%              | 6%             | -43%                 | 55.8                 | 28.7                   | 39.8                | 41.1                      |
|                                    | WBL1 (I) | 229                 | -19%              | -41%           | -27%                 | 80.0                 | -42.8                  | -28.7               | -25.1                     |
|                                    | WBL2 (O) | 94                  | -42%              | 48%            | 8%                   | 80.0                 | -42.8                  | -28.7               | -25.1                     |
|                                    | WBT      | 540                 | 13%               | 11%            | 9%                   | 418.8                | -320.2                 | -77.8               | -36.5                     |
|                                    | WBR1 (I) | 62                  | -16%              | -9%            | -10%                 | 418.8                | -320.2                 | -77.8               | -36.5                     |
|                                    | WBR2 (O) | 43                  | 14%               | -1%            | -1%                  | 418.8                | -320.2                 | -77.8               | -36.5                     |
|                                    | NBIL1    | 205                 | -48%              | -26%           | -29%                 | 487.2                | -433.7                 | -431.5              | -433.4                    |
|                                    | NBIT     | 1,500               | -18%              | -10%           | -9%                  | 487.2                | -433.7                 | -431.5              | -433.4                    |
|                                    | NBOT     | 1,817               | -13%              | -14%           | -15%                 | 100.5                | 23.0                   | -13.6               | -14.6                     |
|                                    | NBOR     | 263                 | 0%                | 1%             | -1%                  | 100.5                | 23.0                   | -13.6               | -14.6                     |
|                                    | SBIL     | 224                 | 6%                | 12%            | 10%                  | 272.5                | -55.4                  | -191.1              | -192.4                    |
| Roosevelt Blvd & Friendship St Ped | SBIT     | 1,384               | 9%                | 2%             | 8%                   | 272.5                | -55.4                  | -191.1              | -192.4                    |
|                                    | SBOT     | 1,032               | -16%              | -7%            | -15%                 | 41.2                 | 7.0                    | 16.2                | 9.8                       |
|                                    | SBOR     | 54                  | 12%               | 17%            | 21%                  | 41.2                 | 7.0                    | 16.2                | 9.8                       |
|                                    | NBIT     | 1,595               | -17%              | -10%           | -9%                  | 6.4                  | -2.9                   | -5.8                | -5.8                      |
|                                    | NBOT     | 1,980               | -11%              | -13%           | -14%                 | 9.9                  | 2.0                    | -7.8                | -7.9                      |
| Roosevelt Blvd & Friendship St Ped | SBIT     | 1,626               | 9%                | 2%             | 7%                   | 38.4                 | -31.0                  | -33.5               | -34.2                     |
|                                    | SBOT     | 1,092               | -16%              | -8%            | -15%                 | 6.7                  | -2.3                   | 0.4                 | -0.8                      |
|                                    | SBOR     | 1                   | -91%              | -55%           | -55%                 | 7.4                  | -2.2                   | 0.6                 | -0.6                      |

% >10% reduction in volume throughput  
 % >10% increase in volume throughput

X.X Queue decreased by 20% and atleast 50 feet compared to Existing  
 X.X Queue increased by 20% and atleast 50 feet compared to Existing

| Intersection                            | Movement  | Volumes             |                   |                |                      | Average Queues       |                        |                     |                           |
|---|-----------|---------------------|-------------------|----------------|----------------------|----------------------|------------------------|---------------------|---------------------------|
|   |           | 2015 Existing (vph) | 2025 No Build Δ % | 2025 Build Δ % | 2025 Build S BAT Δ % | 2015 Existing (feet) | 2025 No Build Δ (feet) | 2025 Build Δ (feet) | 2025 Build S BAT Δ (feet) |
| Roosevelt Blvd & Cottman Ave            | EBL       | 217                 | 31%               | 26%            | 31%                  | 17.7                 | 4.9                    | 43.2                | 48.3                      |
|   | EBT       | 970                 | -13%              | -13%           | -13%                 | 94.9                 | -7.0                   | 78.5                | 139.0                     |
|   | EBR       | 72                  | -34%              | -30%           | -46%                 | 94.6                 | -6.5                   | 79.0                | 139.5                     |
|   | WBL       | 301                 | -2%               | -12%           | -7%                  | 40.3                 | -20.0                  | 0.3                 | 6.8                       |
|   | WBT       | 810                 | -23%              | -23%           | -23%                 | 60.1                 | -0.8                   | 7.6                 | -2.0                      |
|   | WBR       | 46                  | 19%               | 80%            | 44%                  | 60.1                 | -0.8                   | 7.6                 | -2.0                      |
|   | NBL       | 514                 | -5%               | -6%            | -5%                  | 174.9                | -70.0                  | -80.1               | -83.4                     |
|   | NBT       | 1,177               | -18%              | -20%           | -20%                 | 174.9                | -70.0                  | -80.1               | -83.4                     |
|   | NBR       | 194                 | -9%               | -9%            | -10%                 | 174.9                | -70.0                  | -80.1               | -83.4                     |
|   | SBL       | 208                 | -33%              | -34%           | -32%                 | 40.7                 | 7.8                    | -4.1                | -4.2                      |
|   | SBT       | 793                 | -20%              | -6%            | -16%                 | 40.7                 | 7.8                    | -4.1                | -4.2                      |
|   | SBR       | 79                  | -3%               | 1%             | -3%                  | 40.7                 | 7.8                    | -4.1                | -4.2                      |
| Roosevelt Blvd & Borbeck Ave - Ryan Ave | EBL1 (I)  | 32                  | -10%              | -6%            | -6%                  | 80.4                 | -24.9                  | -21.6               | -21.7                     |
|   | EBL2 (O)  | 24                  | -3%               | -3%            | -3%                  | 80.4                 | -24.9                  | -21.6               | -21.7                     |
|   | EBT       | 261                 | -5%               | -6%            | -6%                  | 80.4                 | -24.9                  | -21.6               | -21.7                     |
|   | EBr1 (I)  | 20                  | 0%                | 2%             | 3%                   | 80.4                 | -24.9                  | -21.6               | -21.7                     |
|   | EBr2 (O)  | 8                   | -31%              | -27%           | -29%                 | 80.4                 | -24.9                  | -21.6               | -21.7                     |
|   | WBL1 (I)  | 18                  | -20%              | -2%            | -4%                  | 72.7                 | -16.9                  | -15.1               | -15.1                     |
|   | WBL2 (O)  | 56                  | -4%               | -10%           | -10%                 | 72.7                 | -16.9                  | -15.1               | -15.1                     |
|   | WBT       | 238                 | 7%                | 7%             | 7%                   | 72.7                 | -16.9                  | -15.1               | -15.1                     |
|   | WBR1 (I)  | 40                  | -3%               | -4%            | -4%                  | 72.7                 | -16.9                  | -15.1               | -15.1                     |
|   | WBR2 (O)  | 8                   | -5%               | -2%            | -2%                  | 75.6                 | -17.1                  | -15.2               | -15.2                     |
|   | NBIU1 (I) | 3                   | 90%               | 341%           | 383%                 | 493.1                | -55.2                  | -448.4              | -449.0                    |
|   | NBIU2 (O) | 21                  | -48%              | -22%           | -35%                 | 493.1                | -55.2                  | -448.4              | -449.0                    |
|   | NBIL      | 158                 | -36%              | -16%           | -16%                 | 493.1                | -55.2                  | -448.4              | -449.0                    |
|   | NBIT      | 1,503               | -17%              | -13%           | -13%                 | 273.6                | -95.7                  | -214.7              | -216.5                    |
|   | NBOT      | 1,058               | 0%                | 1%             | 1%                   | 90.9                 | 6.4                    | -37.2               | -35.0                     |
|   | NBOR      | 63                  | -18%              | -26%           | -28%                 | 90.9                 | 6.4                    | -37.2               | -35.0                     |
|   | SBIU1 (I) | 0                   | -50%              | 650%           | 450%                 | 45.3                 | 138.6                  | -10.3               | -8.0                      |
|   | SIU2 (O)  | 2                   | 383%              | 1809%          | 2126%                | 45.3                 | 138.6                  | -10.3               | -8.0                      |
|   | SBIL      | 107                 | -3%               | 7%             | 8%                   | 45.3                 | 138.6                  | -10.3               | -8.0                      |
|   | SBIT      | 1,440               | 3%                | -4%            | -3%                  | 99.5                 | 12.5                   | -31.5               | -29.2                     |
|   | SBOT      | 1,117               | -12%              | -3%            | -5%                  | 88.6                 | 31.3                   | 5.5                 | 3.2                       |
|   | SBOR      | 38                  | 158%              | 125%           | 125%                 | 88.6                 | 31.3                   | 5.5                 | 3.2                       |
| Roosevelt Blvd & Rhawn St               | EBL1 (I)  | 72                  | -4%               | -4%            | -4%                  | 166.6                | -27.5                  | -31.0               | -32.5                     |
|   | EBL2 (O)  | 64                  | -2%               | -3%            | -3%                  | 166.6                | -27.5                  | -31.0               | -32.5                     |
|   | EBT       | 381                 | 6%                | 6%             | 6%                   | 166.6                | -27.5                  | -31.0               | -32.5                     |
|   | EBr1 (I)  | 64                  | -7%               | -5%            | -4%                  | 166.6                | -27.5                  | -31.0               | -32.5                     |
|   | EBr2 (O)  | 29                  | -20%              | -22%           | -25%                 | 166.6                | -27.5                  | -31.0               | -32.5                     |
|   | WBL1 (I)  | 48                  | -6%               | 5%             | 5%                   | 88.3                 | -10.1                  | -12.2               | -12.3                     |
|   | WBL2 (O)  | 56                  | 1%                | -6%            | 6%                   | 88.3                 | -10.1                  | -12.2               | -12.3                     |
|   | WBT       | 341                 | 2%                | 2%             | 2%                   | 88.3                 | -10.1                  | -12.2               | -12.3                     |
|   | WBR1 (I)  | 103                 | 7%                | 7%             | 7%                   | 88.3                 | -10.1                  | -12.2               | -12.3                     |
|   | WBR2 (O)  | 19                  | 8%                | 6%             | 6%                   | 88.3                 | -10.1                  | -12.2               | -12.3                     |
|   | NBIU1 (I) | 0                   | 1225%             | 12225%         | 13750%               | 53.5                 | -17.8                  | -29.7               | -27.6                     |
|   | NBIU2 (O) | 0                   | 75%               | 250%           | 125%                 | 53.5                 | -17.8                  | -29.7               | -27.6                     |
|   | NBIL      | 104                 | -30%              | -34%           | -35%                 | 53.5                 | -17.8                  | -29.7               | -27.6                     |
|   | NBIT      | 1,468               | -18%              | -14%           | -15%                 | 101.9                | -88.3                  | -91.0               | -91.8                     |
|   | NBOT      | 1,053               | 2%                | 4%             | 5%                   | 76.8                 | -59.3                  | -58.4               | -57.3                     |
|   | NBOR      | 40                  | -6%               | -3%            | -2%                  | 76.9                 | -59.2                  | -58.7               | -57.2                     |
|   | SBIU1 (I) | 0                   | -                 | -              | -                    | 276.7                | 159.3                  | -39.9               | -98.9                     |
|   | SIU2 (O)  | 16                  | 45%               | 90%            | 146%                 | 276.7                | 159.3                  | -39.9               | -98.9                     |
|   | SBIL      | 121                 | 10%               | 18%            | 17%                  | 276.7                | 159.3                  | -39.9               | -98.9                     |
| Roosevelt Blvd & Holme Ave - Solly Ave  | SBIT      | 1,439               | 4%                | -3%            | -2%                  | 121.5                | 12.2                   | 17.2                | 8.7                       |
|   | SBOT      | 1,061               | -6%               | 2%             | 0%                   | 74.8                 | -45.7                  | -14.6               | -16.8                     |
|   | SBOR      | 26                  | 77%               | 108%           | 110%                 | 75.7                 | -44.8                  | -13.1               | -15.2                     |
|   | EBL       | 105                 | -13%              | -26%           | -22%                 | 20.8                 | 7.0                    | 10.9                | 10.9                      |
|   | EBT       | 385                 | 4%                | 3%             | 3%                   | 47.1                 | 22.1                   | 24.6                | 24.9                      |
|   | EBr       | 20                  | -13%              | -15%           | -16%                 | 47.0                 | 22.1                   | 24.6                | 24.9                      |
|   | WBL       | 274                 | 11%               | -4%            | -4%                  | 33.8                 | 12.2                   | 9.8                 | 14.0                      |
|   | WBT       | 338                 | 1%                | 1%             | 1%                   | 32.1                 | 6.4                    | 2.6                 | 4.8                       |
|   | WBR       | 75                  | 5%                | 52%            | 54%                  | 0.9                  | 2.5                    | 1.0                 | 1.4                       |
|   | NBL       | 25                  | -6%               | -5%            | -6%                  | 76.4                 | -33.6                  | -60.1               | -58.8                     |
|   | NBT       | 814                 | -13%              | -10%           | -9%                  | 76.4                 | -33.6                  | -60.1               | -58.8                     |
|   | NBR       | 291                 | 13%               | 3%             | 5%                   | 76.4                 | -33.6                  | -60.1               | -58.8                     |
|   | SBL       | 213                 | -10%              | 0%             | 0%                   | 58.7                 | 42.6                   | 22.3                | 17.6                      |
|   | SBT       | 824                 | -18%              | -7%            | -10%                 | 58.7                 | 42.6                   | 22.3                | 17.6                      |
|   | SBR       | 38                  | 3%                | 1%             | 1%                   | 58.7                 | 42.6                   | 22.3                | 17.6                      |

% >10% reduction in volume throughput  
 % >10% increase in volume throughput

X.X Queue decreased by 20% and atleast 50 feet compared to Existing  
 X.X Queue increased by 20% and atleast 50 feet compared to Existing

| Intersection                 | Movement  | Volumes             |                   |                |                      | Average Queues       |                        |                     |                           |
|------------------------------|-----------|---------------------|-------------------|----------------|----------------------|----------------------|------------------------|---------------------|---------------------------|
|                              |           | 2015 Existing (vph) | 2025 No Build Δ % | 2025 Build Δ % | 2025 Build S BAT Δ % | 2015 Existing (feet) | 2025 No Build Δ (feet) | 2025 Build Δ (feet) | 2025 Build S BAT Δ (feet) |
| Roosevelt Blvd & Strahle St  | EBL1 (I)  | 161                 | 23%               | 23%            | 23%                  | 43.4                 | 7.4                    | 3.2                 | 3.1                       |
|                              | EBR1 (I)  | 51                  | 7%                | 8%             | 8%                   | 43.4                 | 7.4                    | 3.2                 | 3.1                       |
|                              | EBR2 (O)  | 22                  | -29%              | -38%           | -37%                 | 43.4                 | 7.4                    | 3.2                 | 3.1                       |
|                              | WBR       | 29                  | 11%               | 11%            | 9%                   | 0.3                  | -0.2                   | -0.2                | -0.2                      |
|                              | NBIU2 (O) | 79                  | -28%              | 0%             | 2%                   | 76.0                 | -28.1                  | -46.2               | -46.6                     |
|                              | NBIL      | 64                  | -15%              | -14%           | -15%                 | 76.0                 | -28.1                  | -46.2               | -46.6                     |
|                              | NBIT      | 1,476               | -14%              | -9%            | -11%                 | 76.0                 | -28.1                  | -46.2               | -46.6                     |
|                              | NBOT      | 1,034               | -11%              | -6%            | -5%                  | 1.1                  | 1.2                    | -1.1                | -1.1                      |
|                              | NBOR      | 11                  | -7%               | -21%           | -26%                 | 26.9                 | -7.9                   | -5.6                | -4.9                      |
|                              | SBIT      | 1,551               | 4%                | 0%             | 0%                   | 60.3                 | -51.3                  | -44.2               | -43.8                     |
| Roosevelt Blvd & Woodward St | SBOT      | 982                 | -16%              | -6%            | -9%                  | 46.8                 | -31.2                  | -28.5               | -28.4                     |
|                              | SBOR      | 77                  | 6%                | 9%             | 8%                   | 46.2                 | -31.6                  | -29.0               | -28.7                     |
|                              | EBL1 (I)  | 25                  | -4%               | 0%             | 0%                   | 90.8                 | 1.4                    | -67.9               | -68.3                     |
|                              | EBL2 (O)  | 112                 | -8%               | -11%           | -11%                 | 90.8                 | 1.4                    | -67.9               | -68.3                     |
|                              | EBT       | 78                  | -2%               | 5%             | 5%                   | 90.8                 | 1.4                    | -62.3               | -62.5                     |
|                              | EBR1 (I)  | 62                  | -18%              | 6%             | 5%                   | 90.8                 | 1.4                    | -62.3               | -62.5                     |
|                              | EBR2 (O)  | 4                   | -18%              | 62%            | 59%                  | 90.8                 | 1.4                    | -62.3               | -62.5                     |
|                              | WBL1 (I)  | 26                  | -15%              | 28%            | 36%                  | 41.0                 | 17.4                   | -21.6               | -21.7                     |
|                              | WBL2 (O)  | 81                  | 1%                | -4%            | -7%                  | 41.0                 | 17.4                   | -21.6               | -21.7                     |
|                              | WBT       | 101                 | -3%               | 2%             | 2%                   | 41.0                 | 17.4                   | -20.3               | -20.6                     |
| Roosevelt Blvd & Welsh Rd    | WBR1 (I)  | 9                   | -8%               | -1%            | -1%                  | 41.0                 | 17.4                   | -20.3               | -20.6                     |
|                              | WBR2 (O)  | 9                   | -7%               | -1%            | -5%                  | 41.0                 | 17.4                   | -20.3               | -20.6                     |
|                              | NBIU1 (I) | 5                   | 4%                | 0%             | 6%                   | 206.4                | -129.3                 | -124.6              | -146.9                    |
|                              | NBIU2 (O) | 9                   | -64%              | -64%           | -63%                 | 206.4                | -129.3                 | -124.6              | -146.9                    |
|                              | NBIL      | 128                 | -1%               | 32%            | 17%                  | 206.4                | -129.3                 | -124.6              | -146.9                    |
|                              | NBIT      | 1,572               | -15%              | -14%           | -14%                 | 147.5                | -118.1                 | -96.1               | -96.0                     |
|                              | NBOT      | 837                 | -3%               | 3%             | 4%                   | 57.6                 | -29.5                  | -9.1                | -10.7                     |
|                              | NBOR      | 28                  | 1%                | 4%             | 1%                   | 57.6                 | -29.5                  | -9.1                | -10.7                     |
|                              | SBIU1 (I) | 0                   | -100%             | 193%           | -27%                 | 10.0                 | 11.8                   | 2.5                 | 2.2                       |
|                              | SIU2 (O)  | 3                   | 434%              | 390%           | 331%                 | 10.0                 | 11.8                   | 2.5                 | 2.2                       |
| Roosevelt Blvd & Welsh Rd    | SBIL      | 19                  | 15%               | 11%            | 13%                  | 10.0                 | 11.8                   | 2.5                 | 2.2                       |
|                              | SBIT      | 1,341               | 4%                | -2%            | -2%                  | 88.1                 | 62.1                   | -17.9               | -19.3                     |
|                              | SBOT      | 1,083               | -12%              | -5%            | -7%                  | 193.8                | -58.1                  | -108.6              | -111.7                    |
|                              | SBOR      | 48                  | 44%               | -35%           | 9%                   | 193.8                | -58.1                  | -108.6              | -111.7                    |
|                              | EBL1 (I)  | 14                  | 1%                | 1%             | 1%                   | 118.8                | -34.6                  | -110.4              | -110.4                    |
|                              | EBL2 (O)  | 50                  | -4%               | -4%            | -4%                  | 118.8                | -34.6                  | -110.4              | -110.4                    |
|                              | EBT       | 366                 | 7%                | 7%             | 7%                   | 118.8                | -34.6                  | 18.5                | 18.5                      |
|                              | EBR1 (I)  | 98                  | 19%               | 21%            | 21%                  | 118.8                | -34.6                  | 18.5                | 18.5                      |
|                              | EBR2 (O)  | 30                  | -23%              | -30%           | -29%                 | 118.8                | -34.6                  | 18.5                | 18.5                      |
|                              | WBL1 (I)  | 40                  | 11%               | 7%             | 9%                   | 118.1                | -34.6                  | -90.6               | -90.9                     |
| Roosevelt Blvd & Welsh Rd    | WBL2 (O)  | 108                 | 8%                | 7%             | 6%                   | 118.1                | -34.6                  | -90.6               | -90.9                     |
|                              | WBT       | 333                 | 4%                | 5%             | 5%                   | 118.1                | -34.6                  | -31.9               | -31.9                     |
|                              | WBR1 (I)  | 39                  | -3%               | 0%             | 0%                   | 118.1                | -34.6                  | -31.9               | -31.9                     |
|                              | WBR2 (O)  | 29                  | 2%                | 1%             | 1%                   | 118.1                | -34.6                  | -31.9               | -31.9                     |
|                              | NBIU1 (I) | 3                   | 417%              | 437%           | 400%                 | 0.0                  | 0.0                    | 0.0                 | 0.0                       |
|                              | NBIU2 (O) | 8                   | 14%               | 43%            | 36%                  | 92.4                 | -92.4                  | -92.3               | -92.3                     |
|                              | NBIL      | 240                 | -11%              | -9%            | -9%                  | 214.4                | -84.0                  | -89.5               | -90.4                     |
|                              | NBIT      | 1,351               | -17%              | -15%           | -16%                 | 121.2                | -90.0                  | -75.0               | -74.0                     |
|                              | NBOT      | 906                 | -2%               | 2%             | 3%                   | 78.2                 | -35.8                  | -29.9               | -28.4                     |
|                              | NBOR      | 74                  | 1%                | 8%             | 5%                   | 78.2                 | -35.8                  | -29.9               | -28.4                     |
| Roosevelt Blvd & Welsh Rd    | SIU2 (O)  | 34                  | -72%              | -95%           | -81%                 | 64.4                 | -15.0                  | -27.0               | -16.2                     |
|                              | SBIL      | 127                 | -5%               | -7%            | -7%                  | 64.4                 | -15.0                  | -27.0               | -16.2                     |
|                              | SBIT      | 1,231               | 2%                | -4%            | -4%                  | 116.6                | -98.7                  | -7.6                | -3.8                      |
|                              | SBOT      | 1,050               | -11%              | -6%            | -6%                  | 121.8                | -74.4                  | 13.5                | 12.4                      |
|                              | SBOR      | 46                  | -4%               | -7%            | -8%                  | 121.8                | -74.4                  | 13.5                | 12.4                      |

% >10% reduction in volume throughput  
 % >10% increase in volume throughput

X.X Queue decreased by 20% and atleast 50 feet compared to Existing  
 X.X Queue increased by 20% and atleast 50 feet compared to Existing

| Intersection                               | Movement  | Volumes             |                   |                |                      | Average Queues       |                        |                     |                           |
|--|-----------|---------------------|-------------------|----------------|----------------------|----------------------|------------------------|---------------------|---------------------------|
|  |           | 2015 Existing (vph) | 2025 No Build Δ % | 2025 Build Δ % | 2025 Build S BAT Δ % | 2015 Existing (feet) | 2025 No Build Δ (feet) | 2025 Build Δ (feet) | 2025 Build S BAT Δ (feet) |
| Roosevelt Blvd & Goodnow St                | EBL1 (I)  | 26                  | 9%                | 10%            | 10%                  | 20.6                 | -2.3                   | -2.6                | -2.6                      |
|  | EBL2 (O)  | 62                  | -2%               | -2%            | -2%                  | 20.6                 | -2.3                   | -2.6                | -2.6                      |
|  | EBT       | 39                  | -3%               | -2%            | -2%                  | 20.6                 | -2.3                   | -2.6                | -2.6                      |
|  | EBR1 (I)  | 21                  | 9%                | 5%             | 3%                   | 20.6                 | -2.3                   | -2.6                | -2.6                      |
|  | EBR2 (O)  | 7                   | -1%               | 24%            | 29%                  | 20.6                 | -2.3                   | -2.6                | -2.6                      |
|  | WBL1 (I)  | 22                  | 0%                | -4%            | -7%                  | 30.5                 | -7.8                   | -7.7                | -7.7                      |
|  | WBL2 (O)  | 56                  | 12%               | 14%            | 16%                  | 30.5                 | -7.8                   | -7.7                | -7.7                      |
|  | WBT       | 40                  | 11%               | 11%            | 11%                  | 30.5                 | -7.8                   | -7.7                | -7.7                      |
|  | WBR1 (I)  | 39                  | 3%                | 2%             | 2%                   | 30.5                 | -7.8                   | -7.7                | -7.7                      |
|  | WBR2 (O)  | 54                  | 5%                | 3%             | 3%                   | 29.3                 | -7.6                   | -7.8                | -7.8                      |
|  | NBIU1 (I) | 44                  | -69%              | -94%           | -82%                 | 59.5                 | -40.7                  | -48.4               | -46.8                     |
|  | NBIU2 (O) | 0                   | -100%             | 0%             | 0%                   | 59.5                 | -40.7                  | -48.4               | -46.8                     |
|  | NBIL      | 49                  | -1%               | 6%             | 6%                   | 59.5                 | -40.7                  | -48.4               | -46.8                     |
|  | NBIT      | 1,282               | -13%              | -11%           | -12%                 | 41.3                 | 2.7                    | -32.2               | -31.9                     |
|  | NBOT      | 963                 | -6%               | -2%            | -1%                  | 36.2                 | 14.0                   | -23.6               | -23.0                     |
|  | NBOR      | 75                  | -19%              | -13%           | -13%                 | 36.2                 | 14.0                   | -23.6               | -23.0                     |
|  | SBIU1 (I) | 1                   | -53%              | -86%           | -86%                 | 63.9                 | -22.1                  | -35.4               | -36.1                     |
|  | SIU2 (O)  | 5                   | 182%              | 14%            | 12%                  | 63.9                 | -22.1                  | -35.4               | -36.1                     |
|  | SBIL      | 106                 | -8%               | -10%           | -10%                 | 63.9                 | -22.1                  | -35.4               | -36.1                     |
|  | SBIT      | 1,412               | -1%               | -6%            | -4%                  | 80.4                 | 32.1                   | -8.7                | -6.3                      |
|  | SBOT      | 941                 | -11%              | 0%             | -2%                  | 102.7                | -18.8                  | -29.9               | -32.7                     |
|  | SBOR      | 66                  | -7%               | -9%            | -9%                  | 101.1                | -18.9                  | -30.2               | -32.7                     |
| Roosevelt Blvd & Grant Ave                 | EBL1 (I)  | 24                  | 5%                | 6%             | 6%                   | 16.8                 | -1.9                   | -0.3                | -0.5                      |
|  | EBL2 (O)  | 86                  | 0%                | 3%             | 3%                   | 16.8                 | -1.9                   | -0.3                | -0.5                      |
|  | EBT       | 896                 | 0%                | 2%             | 2%                   | 129.1                | -38.0                  | -21.2               | -21.1                     |
|  | EBR1 (I)  | 83                  | -13%              | -16%           | -16%                 | 129.1                | -38.0                  | -21.2               | -21.1                     |
|  | EBR2 (O)  | 29                  | -30%              | -8%            | -7%                  | 129.1                | -38.0                  | -21.2               | -21.1                     |
|  | WBL1 (I)  | 78                  | -20%              | -18%           | -16%                 | 140.8                | -104.1                 | -101.3              | -100.1                    |
|  | WBL2 (O)  | 129                 | 1%                | 2%             | 1%                   | 140.8                | -104.1                 | -101.3              | -100.1                    |
|  | WBT       | 1,018               | 1%                | 3%             | 3%                   | 130.8                | -35.9                  | -22.3               | -22.0                     |
|  | WBR1 (I)  | 125                 | 2%                | 5%             | 5%                   | 130.8                | -35.9                  | -22.3               | -22.0                     |
|  | WBR2 (O)  | 43                  | 1%                | 2%             | 2%                   | 130.8                | -35.9                  | -22.3               | -22.0                     |
|  | NBIU1 (I) | 5                   | 170%              | 17%            | 20%                  | 61.0                 | 5.0                    | -14.3               | -14.8                     |
|  | NBIU2 (O) | 12                  | -22%              | -24%           | -21%                 | 61.0                 | 5.0                    | -14.3               | -14.8                     |
|  | NBIL      | 151                 | -13%              | -14%           | -14%                 | 61.0                 | 5.0                    | -14.3               | -14.8                     |
|  | NBIT      | 1,175               | -11%              | -11%           | -11%                 | 117.2                | -86.4                  | -52.5               | -50.6                     |
|  | NBOT      | 847                 | -1%               | -2%            | -1%                  | 116.0                | -52.0                  | -31.2               | -29.3                     |
|  | NBOR      | 196                 | -9%               | -6%            | -6%                  | 116.0                | -52.7                  | -31.7               | -29.6                     |
|  | SBIU1 (I) | 1                   | 60%               | 50%            | 40%                  | 192.7                | -55.9                  | -91.2               | -88.3                     |
|  | SIU2 (O)  | 42                  | -26%              | -38%           | -25%                 | 192.7                | -55.9                  | -91.2               | -88.3                     |
|  | SBIL      | 370                 | 0%                | -2%            | -3%                  | 192.7                | -55.9                  | -91.2               | -88.3                     |
|  | SBIT      | 1,315               | 2%                | -6%            | -3%                  | 192.7                | -55.9                  | -91.2               | -88.3                     |
|  | SBOT      | 790                 | -17%              | -8%            | -11%                 | 124.9                | -16.1                  | -25.5               | -33.2                     |
|  | SBOR      | 74                  | -15%              | -20%           | -19%                 | 124.3                | -15.7                  | -25.5               | -33.3                     |
| Roosevelt Blvd & Whitman Plaza - Fulmer St | EBR       | 10                  | 29%               | 31%            | 31%                  | 0.1                  | 0.0                    | 0.1                 | 0.1                       |
|  | WBL       | 187                 | -5%               | -8%            | -7%                  | 26.2                 | 0.2                    | -0.4                | -0.5                      |
|  | WBR1 (I)  | 99                  | -7%               | -3%            | -5%                  | 26.2                 | 0.2                    | -0.4                | -0.5                      |
|  | WBR2 (O)  | 16                  | -23%              | -27%           | -27%                 | 26.2                 | 0.2                    | -0.4                | -0.5                      |
|  | NBIU      | 46                  | -50%              | -54%           | -45%                 | 71.7                 | -53.5                  | -29.4               | -29.4                     |
|  | NBIT      | 1,299               | -9%               | -9%            | -10%                 | 71.7                 | -53.5                  | -29.4               | -29.4                     |
|  | NBOT      | 844                 | -5%               | -6%            | -5%                  | 56.4                 | -41.2                  | -14.2               | -14.0                     |
|  | NBOR      | 189                 | 5%                | 4%             | 4%                   | 55.2                 | -43.6                  | -15.0               | -15.3                     |
|  | SBIU1 (I) | 0                   | -                 | -              | -                    | 127.2                | -77.9                  | -71.8               | -72.3                     |
|  | SBIU2 (O) | 91                  | -54%              | -54%           | -55%                 | 127.2                | -77.9                  | -71.8               | -72.3                     |
|  | SBIL      | 204                 | 0%                | 1%             | 2%                   | 127.2                | -77.9                  | -71.8               | -72.3                     |
|  | SBIT      | 1,432               | 1%                | -3%            | -1%                  | 5.0                  | 36.0                   | 34.1                | 33.6                      |
|  | SBOT      | 965                 | -17%              | -10%           | -12%                 | 4.1                  | 30.8                   | 35.4                | 32.7                      |
|  | SBOR      | 3                   | 0%                | 29%            | 29%                  | 4.1                  | 30.8                   | 35.4                | 32.7                      |

% >10% reduction in volume throughput  
 % >10% increase in volume throughput

X.X Queue decreased by 20% and atleast 50 feet compared to Existing  
 X.X Queue increased by 20% and atleast 50 feet compared to Existing

| Intersection                       | Movement  | Volumes             |                   |                |                      | Average Queues       |                        |                     |                           |
|------------------------------------|-----------|---------------------|-------------------|----------------|----------------------|----------------------|------------------------|---------------------|---------------------------|
|                                    |           | 2015 Existing (vph) | 2025 No Build Δ % | 2025 Build Δ % | 2025 Build S BAT Δ % | 2015 Existing (feet) | 2025 No Build Δ (feet) | 2025 Build Δ (feet) | 2025 Build S BAT Δ (feet) |
| Roosevelt Blvd & Lott Street       | EBL1 (I)  | 17                  | 284%              | 286%           | 286%                 | 26.7                 | -4.3                   | -0.7                | -0.6                      |
|                                    | EBR1 (I)  | 150                 | -28%              | -29%           | -29%                 | 26.7                 | -4.3                   | -0.7                | -0.6                      |
|                                    | EBR2 (O)  | 8                   | -20%              | -40%           | -48%                 | 26.7                 | -4.3                   | -0.7                | -0.6                      |
|                                    | NBIU1 (I) | 0                   | -                 | -              | -                    | 32.1                 | -4.0                   | -4.0                | -5.0                      |
|                                    | NBIU2 (O) | 3                   | 50%               | 218%           | 136%                 | 32.1                 | -4.0                   | -4.0                | -5.0                      |
|                                    | NBIL      | 105                 | -12%              | -14%           | -14%                 | 32.1                 | -4.0                   | -4.0                | -5.0                      |
|                                    | NBIT      | 1,291               | -9%               | -6%            | -7%                  | 33.0                 | -23.1                  | 8.8                 | 8.1                       |
|                                    | NBOT      | 950                 | -10%              | -8%            | -7%                  | 18.9                 | -16.2                  | 23.4                | 24.1                      |
|                                    | SBIU1 (I) | 0                   | -                 | -              | -                    | 146.5                | -28.4                  | -15.4               | -17.7                     |
|                                    | SBIT      | 1,576               | 1%                | -2%            | -1%                  | 146.5                | -28.4                  | -15.4               | -17.7                     |
| Roosevelt Blvd & Bowler St Ped     | SBOT      | 952                 | -17%              | -10%           | -11%                 | 59.8                 | -0.3                   | 29.2                | 27.6                      |
|                                    | SBOR      | 40                  | -21%              | -11%           | -12%                 | 59.8                 | -0.3                   | 29.2                | 27.6                      |
|                                    | EBR       | 47                  | -21%              | -19%           | -19%                 | 1.1                  | -0.3                   | -0.1                | -0.1                      |
|                                    | NBIT      | 1,308               | -5%               | -2%            | -3%                  | 21.2                 | 6.3                    | -14.6               | -14.6                     |
|                                    | NBOT      | 1,022               | -9%               | -8%            | -7%                  | 15.2                 | 11.6                   | -10.0               | -10.0                     |
| Roosevelt Blvd & Conwell Ave       | SBIT      | 1,564               | 1%                | -2%            | -1%                  | 53.4                 | -20.2                  | -42.4               | -41.1                     |
|                                    | SBOT      | 933                 | -15%              | -9%            | -10%                 | 10.7                 | 13.8                   | -3.8                | -3.4                      |
|                                    | SBOR      | 2                   | -46%              | -50%           | -50%                 | 10.7                 | 13.8                   | -3.8                | -3.4                      |
|                                    | EBL1 (I)  | 25                  | 34%               | 31%            | 31%                  | 23.6                 | 4.3                    | -7.4                | -7.4                      |
|                                    | EBR1 (I)  | 50                  | 13%               | 11%            | 11%                  | 23.6                 | 4.3                    | -7.4                | -7.4                      |
|                                    | EBR2 (O)  | 6                   | 9%                | 0%             | 0%                   | 23.6                 | 4.3                    | -7.4                | -7.4                      |
|                                    | NBIU1 (I) | 0                   | -                 | -              | -                    | 32.5                 | -9.0                   | 8.3                 | 7.5                       |
|                                    | NBIU2 (O) | 1                   | -86%              | -79%           | -79%                 | 32.5                 | -9.0                   | 8.3                 | 7.5                       |
|                                    | NBIL      | 123                 | -4%               | -1%            | -2%                  | 32.5                 | -9.0                   | 8.3                 | 7.5                       |
|                                    | NBIT      | 1,185               | -5%               | -4%            | -5%                  | 5.9                  | 5.2                    | 17.3                | 17.4                      |
| Roosevelt Blvd & Red Lion Rd       | NBOT      | 1,084               | -5%               | -5%            | -4%                  | 4.6                  | 9.3                    | 21.9                | 22.4                      |
|                                    | SBIU1 (I) | 0                   | 250%              | -50%           | -100%                | 32.0                 | -11.8                  | 32.3                | 32.0                      |
|                                    | SBIT      | 1,502               | 2%                | -2%            | -1%                  | 32.0                 | -11.8                  | 32.3                | 32.0                      |
|                                    | SBOT      | 927                 | -15%              | -9%            | -11%                 | 22.0                 | -8.4                   | 14.4                | 13.9                      |
|                                    | SBOR      | 29                  | 30%               | 31%            | 30%                  | 19.6                 | -8.9                   | 13.3                | 13.3                      |
|                                    | EBL2 (O)  | 56                  | 3%                | 2%             | 1%                   | 142.7                | 56.4                   | -127.9              | -127.9                    |
|                                    | EBT       | 581                 | 8%                | 8%             | 8%                   | 142.7                | 56.4                   | 112.0               | 128.4                     |
|                                    | EBr1 (I)  | 296                 | -2%               | -3%            | -3%                  | 142.7                | 56.4                   | 112.0               | 128.4                     |
|                                    | EBr2 (O)  | 39                  | -5%               | -2%            | -11%                 | 142.7                | 56.4                   | 112.0               | 128.4                     |
|                                    | WBL1 (I)  | 67                  | -26%              | -32%           | -31%                 | 90.7                 | 8.6                    | -65.2               | -65.2                     |
|                                    | WBL2 (O)  | 93                  | -2%               | -1%            | -2%                  | 90.7                 | 8.6                    | -65.2               | -65.2                     |
|                                    | WBT       | 435                 | 2%                | 2%             | 2%                   | 90.7                 | 8.6                    | 19.4                | 19.3                      |
|                                    | WBR1 (I)  | 12                  | 26%               | 28%            | 28%                  | 90.7                 | 8.6                    | 19.4                | 19.3                      |
|                                    | WBR2 (O)  | 23                  | 3%                | 2%             | 2%                   | 90.7                 | 8.6                    | 19.4                | 19.3                      |
|                                    | NBIU1 (I) | 0                   | 850%              | 350%           | 475%                 | 123.7                | -43.9                  | -72.8               | -73.1                     |
|                                    | NBIU2 (O) | 25                  | -16%              | -6%            | -6%                  | 123.7                | -43.9                  | -72.8               | -73.1                     |
|                                    | NBIL      | 264                 | -11%              | -7%            | -7%                  | 123.7                | -43.9                  | -72.8               | -73.1                     |
|                                    | NBIT      | 930                 | 9%                | 3%             | 2%                   | 123.7                | -43.9                  | -72.8               | -73.1                     |
|                                    | NBOT      | 893                 | -20%              | -5%            | -4%                  | 98.5                 | -35.2                  | -62.9               | -63.5                     |
| Roosevelt Blvd & Tomlinson Ave Ped | NBOR      | 187                 | -1%               | -1%            | 2%                   | 98.5                 | -35.2                  | -62.9               | -63.5                     |
|                                    | SBIU1 (I) | 0                   | -100%             | -50%           | -100%                | 81.1                 | 3.2                    | -15.9               | -20.4                     |
|                                    | SIU2 (O)  | 0                   | 825%              | 550%           | 300%                 | 81.1                 | 3.2                    | -15.9               | -20.4                     |
|                                    | SBIL      | 27                  | 48%               | 55%            | 38%                  | 81.1                 | 3.2                    | -15.9               | -20.4                     |
|                                    | SBIT      | 1,158               | 2%                | -1%            | 0%                   | 81.1                 | 3.2                    | -15.9               | -20.4                     |
|                                    | SBOT      | 847                 | -19%              | -13%           | -14%                 | 70.3                 | -1.3                   | -21.4               | -22.4                     |
|                                    | SBOR      | 144                 | 21%               | 21%            | 21%                  | 70.3                 | -1.3                   | -21.4               | -22.4                     |
|                                    | EBR       | 98                  | -32%              | -31%           | -31%                 | 2.9                  | -1.2                   | -1.2                | -1.2                      |
|                                    | NBIT      | 969                 | 10%               | 4%             | 3%                   | 3.5                  | -3.1                   | -3.3                | -3.3                      |
|                                    | NBOT      | 960                 | -18%              | -3%            | -3%                  | 3.3                  | -2.6                   | -3.0                | -3.1                      |
|                                    | SBIT      | 1,192               | 3%                | -2%            | -1%                  | 5.7                  | 2.7                    | -4.7                | -4.7                      |
|                                    | SBOT      | 964                 | -11%              | -6%            | -8%                  | 5.3                  | 2.4                    | -4.2                | -4.1                      |
|                                    | SBOR      | 50                  | 4%                | 6%             | 6%                   | 8.1                  | 2.4                    | -5.8                | -5.8                      |

% >10% reduction in volume throughput  
 % >10% increase in volume throughput

X.X Queue decreased by 20% and atleast 50 feet compared to Existing  
 X.X Queue increased by 20% and atleast 50 feet compared to Existing

| Intersection                  | Movement  | Volumes             |                   |                |                      | Average Queues       |                        |                     |                           |
|-------------------------------|-----------|---------------------|-------------------|----------------|----------------------|----------------------|------------------------|---------------------|---------------------------|
|                               |           | 2015 Existing (vph) | 2025 No Build Δ % | 2025 Build Δ % | 2025 Build S BAT Δ % | 2015 Existing (feet) | 2025 No Build Δ (feet) | 2025 Build Δ (feet) | 2025 Build S BAT Δ (feet) |
| Roosevelt Blvd & Haldeman Ave | EBL1 (I)  | 232                 | 11%               | 14%            | 14%                  | 87.4                 | 2.0                    | 1.2                 | 0.8                       |
|                               | EBL2 (O)  | 317                 | -4%               | -2%            | -2%                  | 87.4                 | 2.0                    | 1.2                 | 0.8                       |
|                               | EBT       | 0                   | -                 | -              | -                    | 87.4                 | 2.0                    | 1.2                 | 0.8                       |
|                               | EBR2 (O)  | 2                   | 9%                | 0%             | 0%                   | 87.4                 | 2.0                    | 1.2                 | 0.8                       |
|                               | WBL1 (I)  | 28                  | -32%              | -43%           | -43%                 | 12.5                 | -1.4                   | -1.3                | -1.3                      |
|                               | WBL2 (O)  | 21                  | 3%                | 18%            | 17%                  | 12.5                 | -1.4                   | -1.3                | -1.3                      |
|                               | WBR1 (I)  | 7                   | 9%                | 35%            | 35%                  | 12.5                 | -1.4                   | -1.3                | -1.3                      |
|                               | WBR2 (O)  | 20                  | -1%               | -4%            | -4%                  | 16.7                 | -1.8                   | -1.7                | -1.7                      |
|                               | NBIU      | 0                   | 3550%             | 3300%          | 100%                 | 16.8                 | 9.2                    | 0.5                 | 0.3                       |
|                               | NBIT      | 956                 | 10%               | 2%             | 2%                   | 16.8                 | 9.2                    | 0.5                 | 0.3                       |
|                               | NBOT      | 949                 | -17%              | -4%            | -4%                  | 15.5                 | 11.6                   | 9.0                 | 7.9                       |
|                               | NBOR      | 0                   | 200%              | 200%           | 200%                 | 14.1                 | 11.1                   | 8.8                 | 7.6                       |
|                               | SBIU      | 26                  | -90%              | -89%           | -87%                 | 37.9                 | -11.2                  | -14.0               | -13.9                     |
|                               | SBIT      | 1,171               | 3%                | -2%            | -1%                  | 37.9                 | -11.2                  | -14.0               | -13.9                     |
|                               | SBOT      | 994                 | -10%              | -7%            | -8%                  | 32.0                 | -3.6                   | -5.3                | -6.3                      |
| Roosevelt Blvd & Plaza Dr     | EBL1 (I)  | 66                  | 17%               | 18%            | 18%                  | 35.8                 | 2.3                    | 0.1                 | 0.2                       |
|                               | EBL2 (O)  | 114                 | -6%               | -6%            | -6%                  | 35.8                 | 2.3                    | 0.1                 | 0.2                       |
|                               | EBT       | 0                   | 100%              | 0%             | 0%                   | 35.8                 | 2.3                    | 0.1                 | 0.2                       |
|                               | EBR1 (I)  | 50                  | -9%               | -14%           | -11%                 | 35.8                 | 2.3                    | 0.1                 | 0.2                       |
|                               | EBR2 (O)  | 19                  | -14%              | -5%            | -12%                 | 33.4                 | 2.3                    | -0.2                | -0.1                      |
|                               | WBL1 (I)  | 7                   | -51%              | -58%           | -58%                 | 4.5                  | -1.1                   | -1.4                | -1.4                      |
|                               | WBL2 (O)  | 11                  | -12%              | -6%            | -6%                  | 4.5                  | -1.1                   | -1.4                | -1.4                      |
|                               | WBT       | 2                   | 0%                | -4%            | -4%                  | 4.5                  | -1.1                   | -1.4                | -1.4                      |
|                               | WBR1 (I)  | 2                   | 32%               | 84%            | 79%                  | 4.5                  | -1.1                   | -1.4                | -1.4                      |
|                               | WBR2 (O)  | 1                   | 0%                | -64%           | -64%                 | 4.5                  | -1.1                   | -1.4                | -1.4                      |
|                               | NBIU1 (I) | 9                   | -45%              | -52%           | -53%                 | 65.1                 | 14.6                   | -11.6               | -11.7                     |
|                               | NBIU2 (O) | 52                  | -65%              | -55%           | -54%                 | 65.1                 | 14.6                   | -11.6               | -11.7                     |
|                               | NBIL      | 78                  | -5%               | 2%             | 3%                   | 65.1                 | 14.6                   | -11.6               | -11.7                     |
|                               | NBIT      | 1,090               | 12%               | 5%             | 4%                   | 65.1                 | 14.6                   | -11.6               | -11.7                     |
|                               | NBOT      | 1,292               | -14%              | -5%            | -5%                  | 38.3                 | 29.8                   | 7.3                 | 7.2                       |
| Roosevelt Blvd & Nabisco Dr   | NBOR      | 1                   | 90%               | 180%           | 180%                 | 38.3                 | 29.8                   | 7.3                 | 7.2                       |
|                               | SBIT      | 1,130               | 2%                | -2%            | -1%                  | 97.7                 | -75.2                  | -13.9               | -12.8                     |
|                               | SBOT      | 1,491               | -6%               | -3%            | -4%                  | 185.9                | -103.5                 | 6.0                 | 1.8                       |
|                               | SBOR      | 175                 | 23%               | 22%            | 22%                  | 185.9                | -103.4                 | 5.9                 | 1.7                       |
|                               | EBL1 (I)  | 9                   | -45%              | -47%           | -50%                 | 13.4                 | -0.1                   | 0.7                 | 0.7                       |
|                               | EBL2 (O)  | 1                   | 40%               | -40%           | -40%                 | 13.4                 | -0.1                   | 0.7                 | 0.7                       |
|                               | EBR2 (O)  | 39                  | 10%               | 12%            | 13%                  | 13.4                 | -0.1                   | 0.7                 | 0.7                       |
|                               | NBIU1 (I) | 0                   | -100%             | -100%          | -100%                | 19.5                 | 22.2                   | -11.9               | -11.3                     |
|                               | NBIU2 (O) | 0                   | -                 | -              | -                    | 19.5                 | 22.2                   | -11.9               | -11.3                     |
|                               | NBIL      | 0                   | -                 | -              | -                    | 19.5                 | 22.2                   | -11.9               | -11.3                     |
| Roosevelt Blvd & Comly Rd     | NBIT      | 1,154               | 13%               | 6%             | 6%                   | 19.5                 | 22.2                   | -11.9               | -11.3                     |
|                               | NBOT      | 1,401               | -13%              | -4%            | -4%                  | 37.9                 | 63.5                   | -13.9               | -9.7                      |
|                               | SBIT      | 1,111               | 3%                | -2%            | -1%                  | 18.2                 | -17.3                  | -13.1               | -13.0                     |
|                               | SBOT      | 1,548               | -2%               | 0%             | -1%                  | 23.3                 | -1.5                   | -16.1               | -15.7                     |
|                               | SBOR      | 29                  | 11%               | 10%            | 11%                  | 23.3                 | -1.5                   | -16.1               | -15.7                     |
|                               | WBL1 (I)  | 44                  | -26%              | -24%           | -24%                 | 88.0                 | 22.7                   | 167.7               | 164.5                     |
|                               | WBL2 (O)  | 327                 | 7%                | 7%             | 6%                   | 88.0                 | 22.7                   | 167.7               | 164.5                     |
|                               | WBR1 (I)  | 276                 | 2%                | 22%            | 20%                  | 88.0                 | 22.7                   | 167.7               | 164.5                     |
|                               | WBR2 (O)  | 8                   | 22%               | 25%            | 25%                  | 88.0                 | 22.7                   | 167.7               | 164.5                     |
|                               | NBIT      | 1,167               | 12%               | 5%             | 5%                   | 25.0                 | 68.5                   | 24.0                | 25.5                      |
| Roosevelt Blvd & Byberry Rd   | NBOT      | 1,185               | -11%              | -6%            | -5%                  | 64.0                 | 28.5                   | 4.6                 | 6.8                       |
|                               | NBOR      | 220                 | -22%              | 3%             | 2%                   | 62.4                 | 29.2                   | 5.3                 | 7.5                       |
|                               | SBIU1 (I) | 0                   | -                 | -              | -                    | 278.0                | 514.7                  | 6.8                 | 12.1                      |
|                               | SBIU2 (O) | 21                  | -21%              | 8%             | 8%                   | 278.0                | 514.7                  | 6.8                 | 12.1                      |
|                               | SBIL      | 293                 | -13%              | -1%            | -1%                  | 278.0                | 514.7                  | 6.8                 | 12.1                      |
|                               | SBIT      | 1,066               | 4%                | -1%            | 0%                   | 89.7                 | 200.3                  | -53.4               | -50.2                     |
|                               | SBOT      | 1,250               | -3%               | -1%            | -2%                  | 91.3                 | -68.9                  | -48.5               | -48.5                     |
|                               | EBL2 (O)  | 92                  | -17%              | -18%           | -18%                 | 61.0                 | -8.7                   | -5.4                | -5.4                      |
|                               | EBR1 (I)  | 175                 | -23%              | -28%           | -26%                 | 61.0                 | -8.7                   | -5.4                | -5.4                      |
|                               | EBR2 (O)  | 152                 | -2%               | 3%             | 2%                   | 61.0                 | -8.7                   | -5.4                | -5.4                      |

% >10% reduction in volume throughput  
 % >10% increase in volume throughput

X.X Queue decreased by 20% and atleast 50 feet compared to Existing  
 X.X Queue increased by 20% and atleast 50 feet compared to Existing

| Intersection                           | Movement  | Volumes             |                   |                |                      | Average Queues       |                        |                     |                           |
|--|-----------|---------------------|-------------------|----------------|----------------------|----------------------|------------------------|---------------------|---------------------------|
|  |           | 2015 Existing (vph) | 2025 No Build Δ % | 2025 Build Δ % | 2025 Build S BAT Δ % | 2015 Existing (feet) | 2025 No Build Δ (feet) | 2025 Build Δ (feet) | 2025 Build S BAT Δ (feet) |
| Roosevelt Blvd & Hornig Rd - Crown Way | EBL1 (I)  | 88                  | 12%               | 7%             | 11%                  | 27.5                 | 0.1                    | -1.4                | -1.1                      |
|  | EBL2 (O)  | 8                   | 0%                | 35%            | -1%                  | 27.5                 | 0.1                    | -1.4                | -1.1                      |
|  | EBT       | 2                   | 10%               | -5%            | 0%                   | 27.5                 | 0.1                    | -1.4                | -1.1                      |
|  | EBR1 (I)  | 46                  | -1%               | 2%             | 3%                   | 27.5                 | 0.1                    | -1.4                | -1.1                      |
|  | EBR2 (O)  | 81                  | -4%               | -6%            | -6%                  | 27.5                 | 0.1                    | -1.4                | -1.1                      |
|  | WBL1 (I)  | 10                  | -4%               | 1%             | 1%                   | 17.2                 | -0.9                   | -1.3                | -1.0                      |
|  | WBL2 (O)  | 52                  | -10%              | -13%           | -13%                 | 17.2                 | -0.9                   | -1.3                | -1.0                      |
|  | WBT       | 5                   | -2%               | -5%            | -7%                  | 17.2                 | -0.9                   | -1.3                | -1.0                      |
|  | WBR1 (I)  | 72                  | -4%               | -5%            | -5%                  | 17.2                 | -0.9                   | -1.3                | -1.0                      |
|  | WBR2 (O)  | 0                   | 0%                | -100%          | 100%                 | 17.2                 | -0.9                   | -1.3                | -1.0                      |
|  | NBIU1 (I) | 0                   | -                 | -              | -                    | 16.9                 | 96.0                   | 28.5                | 32.7                      |
|  | NBIU2 (O) | 2                   | -12%              | -47%           | -47%                 | 16.9                 | 96.0                   | 28.5                | 32.7                      |
|  | NBIL      | 17                  | -3%               | -7%            | -8%                  | 16.9                 | 96.0                   | 28.5                | 32.7                      |
|  | NBIT      | 1,349               | 11%               | 11%            | 10%                  | 16.9                 | 96.0                   | 28.5                | 32.7                      |
|  | NBOT      | 1,424               | -9%               | -5%            | -5%                  | 33.7                 | 66.7                   | 28.0                | 29.7                      |
|  | NBOR      | 13                  | -3%               | -8%            | -8%                  | 46.5                 | 70.4                   | 29.6                | 31.4                      |
|  | SBIU1 (I) | 0                   | 200%              | 300%           | 0%                   | 11.4                 | 6.6                    | 34.5                | 35.3                      |
|  | SIU2 (O)  | 5                   | -83%              | -100%          | -98%                 | 11.4                 | 6.6                    | 34.5                | 35.3                      |
| Roosevelt Blvd & Southampton Rd        | SBIL      | 3                   | -17%              | -8%            | -6%                  | 11.4                 | 6.6                    | 34.5                | 35.3                      |
|  | SBIT      | 1,136               | 8%                | 6%             | 6%                   | 11.4                 | 6.6                    | 34.5                | 35.3                      |
|  | SBOT      | 1,568               | -3%               | 0%             | -1%                  | 26.4                 | 51.2                   | 60.7                | 60.7                      |
|  | SBOR      | 29                  | 22%               | 20%            | 18%                  | 26.4                 | 51.2                   | 60.7                | 60.7                      |
|  | EBL1 (I)  | 84                  | 22%               | 18%            | 18%                  | 64.9                 | -5.5                   | -12.1               | -11.8                     |
|  | EBL2 (O)  | 0                   | -                 | -              | -                    | 64.9                 | -5.5                   | -12.1               | -11.8                     |
|  | EBT       | 274                 | 1%                | 0%             | 0%                   | 64.9                 | -5.5                   | -12.1               | -11.8                     |
|  | EBR1 (I)  | 53                  | -3%               | 1%             | 1%                   | 64.9                 | -5.5                   | -12.1               | -11.8                     |
|  | EBR2 (O)  | 114                 | -12%              | -13%           | -12%                 | 59.7                 | -4.9                   | -10.3               | -10.1                     |
|  | WBL1 (I)  | 67                  | 12%               | 10%            | 10%                  | 113.0                | 7.5                    | -6.9                | -7.0                      |
|  | WBL2 (O)  | 94                  | -1%               | 2%             | 1%                   | 113.0                | 7.5                    | -6.9                | -7.0                      |
|  | WBT       | 432                 | 7%                | 7%             | 7%                   | 113.0                | 7.5                    | -6.9                | -7.0                      |
|  | WBR1 (I)  | 247                 | 45%               | 44%            | 44%                  | 113.0                | 7.5                    | -6.9                | -7.0                      |
|  | WBR2 (O)  | 0                   | -100%             | -100%          | 0%                   | 110.7                | 7.9                    | -6.2                | -5.9                      |
|  | NBIU1 (I) | 6                   | -70%              | -90%           | -89%                 | 134.2                | -23.5                  | -5.7                | -4.8                      |
|  | NBIU2 (O) | 2                   | -47%              | -41%           | -41%                 | 134.2                | -23.5                  | -5.7                | -4.8                      |
|  | NBIL      | 265                 | -12%              | -11%           | -11%                 | 134.2                | -23.5                  | -5.7                | -4.8                      |
|  | NBIT      | 1,441               | 12%               | 11%            | 11%                  | 134.2                | -23.5                  | -5.7                | -4.8                      |
| Roosevelt Blvd & Northgate Dr          | NBOT      | 1,100               | -8%               | -3%            | -2%                  | 51.6                 | 7.1                    | 24.7                | 26.8                      |
|  | NBOR      | 120                 | -15%              | -15%           | -14%                 | 50.4                 | 7.2                    | 24.1                | 26.2                      |
|  | SBIU1 (I) | 7                   | 62%               | 57%            | 56%                  | 269.9                | 504.0                  | 162.8               | 163.4                     |
|  | SIU2 (O)  | 0                   | -                 | -              | -                    | 269.9                | 504.0                  | 162.8               | 163.4                     |
|  | SBIL      | 248                 | -16%              | -4%            | -4%                  | 269.9                | 504.0                  | 162.8               | 163.4                     |
|  | SBIT      | 1,019               | 9%                | 5%             | 6%                   | 269.9                | 504.0                  | 162.8               | 163.4                     |
|  | SBOT      | 1,385               | -2%               | 1%             | 1%                   | 116.8                | 106.9                  | 52.9                | 46.7                      |
|  | SBOR      | 198                 | 19%               | 16%            | 16%                  | 116.8                | 106.9                  | 52.9                | 46.7                      |
|  | EBL       | 150                 | 38%               | 38%            | 38%                  | 40.4                 | 13.6                   | 11.3                | 11.5                      |
|  | EBT       | 3                   | -56%              | -69%           | -56%                 | 36.9                 | 14.9                   | 12.5                | 12.6                      |
| Roosevelt Blvd & Old Lincoln Hwy       | EBR       | 224                 | -14%              | -14%           | -14%                 | 61.6                 | 14.3                   | 11.5                | 11.6                      |
|  | WBL       | 2                   | -56%              | -44%           | -44%                 | 0.7                  | -0.5                   | -0.4                | -0.3                      |
|  | WBT       | 5                   | 10%               | 14%            | 14%                  | 1.4                  | -0.2                   | -0.4                | -0.4                      |
|  | WBR       | 2                   | -15%              | -40%           | -10%                 | 1.1                  | -0.7                   | -0.6                | -0.3                      |
|  | NBL       | 94                  | 0%                | 3%             | 3%                   | 22.3                 | 5.1                    | 17.7                | 18.3                      |
|  | NBT       | 2,757               | 9%                | 10%            | 10%                  | 107.3                | 16.2                   | -95.2               | -95.7                     |
|  | NBR       | 6                   | 5%                | 2%             | 6%                   | 104.6                | 15.9                   | -94.9               | -95.3                     |
|  | SBT       | 2,631               | 7%                | 7%             | 7%                   | 22.5                 | -1.5                   | 13.6                | 13.3                      |
|  | SBR       | 13                  | 63%               | 74%            | 74%                  | 24.1                 | -1.8                   | 14.5                | 14.2                      |
|  | EBL       | 327                 | 4%                | 21%            | 21%                  | 268.3                | 747.4                  | 31.6                | 14.1                      |
| Roosevelt Blvd & Old Lincoln Hwy       | EBT       | 77                  | 13%               | 16%            | 16%                  | 268.3                | 747.4                  | 31.6                | 14.1                      |
|  | EBR       | 513                 | -22%              | -26%           | -27%                 | 0.0                  | 0.0                    | 171.3               | 163.3                     |
|  | WBL       | 86                  | -6%               | -5%            | -5%                  | 54.7                 | -0.2                   | 1.6                 | 3.7                       |
|  | WBT       | 104                 | 16%               | 14%            | 14%                  | 54.7                 | -0.2                   | 1.6                 | 3.7                       |
|  | WBR       | 6                   | 85%               | 68%            | 74%                  | 72.7                 | -5.6                   | -4.0                | -1.9                      |
|  | NBL       | 339                 | -11%              | -12%           | -11%                 | 82.7                 | -1.4                   | -28.4               | -30.1                     |
|  | NBT       | 2,421               | 16%               | 17%            | 17%                  | 82.7                 | -1.4                   | -28.4               | -30.1                     |
|  | NBR       | 0                   | 800%              | 5100%          | 5800%                | 54.7                 | -3.0                   | -7.1                | -9.5                      |
|  | SBL       | 29                  | 42%               | 37%            | 37%                  | 0.0                  | 170.9                  | 203.3               | 205.0                     |
|  | SBT       | 2,072               | 13%               | 15%            | 15%                  | 37.4                 | 21.4                   | 48.2                | 49.6                      |
|  | SBR       | 112                 | -18%              | -18%           | -18%                 | 0.1                  | 0.0                    | 0.2                 | 0.6                       |

% >10% reduction in volume throughput  
 % >10% increase in volume throughput

X.X Queue decreased by 20% and atleast 50 feet compared to Existing  
 X.X Queue increased by 20% and atleast 50 feet compared to Existing

## BACKGROUND

This memo summarizes the assumptions made for the updated 2025 Build VISSIM models and the simulation results (including travel time, queue length, LOS and delay comparisons with 2025 No Build Conditions). The 2025 Build models incorporated the proposed improvements that were selected based on the first five steps of the screening process. The prior screenings focused on individual intersections. The 2025 Build VISSIM models analyzed the network wide effects of these improvements.

## ASSUMPTIONS

For each peak period, two corridor-wide alternatives were evaluated:

- 2025 Build Scenario: Includes approved improvements from screening process
- 2025 Build S-BAT Scenario: Adds Business Access and Transit (BAT) Lanes along the S Curve (approximately between F Street and Summerdale Avenue) to 2025 Build Scenario

**Table 1** summarizes the improvements at each intersection. Additional details on the improvements and the associated illustrations are provided in **Appendix A**. Assumptions used in both 2025 Build AM and PM VISSIM models are discussed below.

### Geometry

2025 No Build VISSIM Models were used as the basis for the Build models. The No Build models included planned and programmed improvements such as BAT lanes north of Bustleton Avenue and the interchange modifications near Neshaminy Mall. The project team screened multiple alternatives at the intersection-level along the corridor in Screens 1 through 5. The preferred alternative at each intersection from this screening was analyzed in the Build VISSIM models (i.e., Screen 6).

Additional assumptions regarding bump-outs and a second pair of BAT lanes are described in further detail below.

#### BAT Lane

- Outermost lane of the NB and SB local lanes, which can be used by buses and right-turning vehicles only
- Typically, an effective distance of 200 feet from the intersection was used for BAT lane modeling. However, adjustments were made based on distance between intersections, driveways, unsignalized intersections and high turning movement volumes
- 2025 Build: BAT lanes from 9<sup>th</sup> Street to F Street in both directions and from Fillmore Street to Pratt Street; no BAT lane along S Curve
- 2025 Build S-BAT: Continuous BAT lane from 9<sup>th</sup> Street to Pratt Street

**Table 1:** Summary of Improvements

## *Bump-outs*

- Located along the outer lanes of local (outer) lanes of Roosevelt Boulevard
- Bump-outs extend the curb into the roadway and reduce the NB and SB local lanes to two lanes in each direction. This improves pedestrian safety by reducing the distance that pedestrians must cross on Roosevelt Boulevard
- Typically, an entire lane in each direction is removed between intersections. However, right turn pockets are proposed at certain locations that have adequate time for pedestrians to cross due to heavy right turn volumes.
- Northbound extent
  - Between Bridge Street and Castor Avenue
  - Between (north) Oxford Circle and Bustleton Avenue
- Southbound extent
  - Between Robbins Street and (north) Oxford Circle
  - Between (south) Oxford Circle and Pratt Street

## **Bus Routes**

Schedule for Boulevard Direct/Direct Bus B: A bus every 15 mins until 45 mins into simulation and then one every 10 mins until the end of the simulation

Lane usage:

- Boulevard Direct/Direct Bus B buses can use any lane
- Regular buses can only use the BAT lane

Bus stops: Direct Bus Phase B stops only at the following existing bus stops:

- Broad Street, 9th Street, 5th Street, Rising Sun Avenue, Tower Boulevard, and Pratt Street

## **O-D Volume Changes**

The Build models utilized the same Origin-Destination (O-D) Matrix as the No Build Conditions. This was deemed to be acceptable by DVRPC, as demand along the Boulevard is expected to drop further in the Build Conditions with BAT lanes and bump-outs on the outer facility. As a result, using the No Build volumes and O-D matrices is a conservative approach.

One modification was made to the No-Build O-D to account for the elimination of left-turn from Adams Avenue to Whitaker Avenue as a part of 2025 Build Conditions. In the Existing and No Build Conditions vehicles wishing to the southbound inner lanes or go to the east side of Whitaker Avenue from Tower Boulevard utilized turned left from westbound Adams Avenue to eastbound Whitaker Avenue. As the left turn from Adams Avenue to Whitaker Avenue was eliminated these vehicles were shifted to Langdon Boulevard where they could directly turn onto the southbound inner lanes.

## **Signal Controllers**

The following changes were made to signal timings under No Build Conditions:

- Performed corridor-wide signal optimization and updated offsets for all signal controllers
- Used 120-second cycle length for all the intersections between 9<sup>th</sup> Street and Old Lincoln Highway. In the PM peak hour, a 60-second cycle was used at Oxford Circle to clear the queues more frequently.

- Changed left-turn signal phase from leading to lagging to reduce the all-red time for the left-turn phase and moved that time to the other phases. The locations are shown in **Table 1**.

## VISSIM Model Parameters

The No Build VISSIM model parameters are presented in **Table 2**.

**Table 2:** VISSIM Simulation Parameters

| Parameter                     | Assumptions   |
|-------------------------------|---|
| VISSIM Version                | Version 9.00 - 11   |
| Total Simulation Time         | Approximately 2 hours 15 minutes (8200 seconds)   |
| Seeding Time                  | 1 hour 15 mins (4500 seconds)   |
| Recorded Simulation Time      | 1 hour (3600 seconds)   |
| Entry Volumes (Inputs)        | DVRPC input from VISUM in 1-hour increments   |
| Heavy Vehicle Percentages     | DVRPC input from VISUM  |
| Arrival Distribution          | Used “Exact Volume”   |
| Link Length                   | No limitation on link length; links should be continuous through areas with consistent lane configuration |
| Link Speed                    | +/- 14 mph from the posted speed limit per field observations   |
| Car Following Model           | Wiedemann 99 and 74 car following models for freeway and arterials, respectively                          |
| Performance Measure Intervals | One-hour increments   |
| Simulation Resolution         | 5-time steps/sec  |
| Initial Random Seed           | 44 (same as Existing Conditions)  |
| Number of Simulation Runs     | 10 as established in Existing Conditions models   |
| Origin-Destination            | DVRPC input from VISUM  |
| Vehicle Types                 | Car, Bus, and Heavy Gross Vehicles (trucks)   |
| Driver Behavior               | No changes from Existing Conditions model   |
| Lane Change Distance          | No changes from Existing Conditions model unless warranted by an improvement                              |

# RESULTS

The 2025 Build AM and PM Peak model results for the following Measures of Effectiveness (MOEs) are presented in this section.

- Maximum Travel Time Per User – Pedestrians
- Network-Wide Demand Served - Automobile
- Average Travel Time Per User – Automobile
- Average Travel Time Per User – Buses
- LOS and Delay – Automobile
- Queue Length – Automobile
- Crossover Operations

The Build scenarios allow pedestrians to cross the Boulevard in two cycles. Thus, pedestrian MOEs remain the same for both AM and PM peak hours and are presented combined below. All other MOEs are presented separately for AM and PM peak hours.

## Maximum Travel Time Per User - Pedestrians

**Table 3** summarizes the number of cycles required by a pedestrian to safely cross the boulevard as well as the locations where crossing distance was reduced in the Build scenarios. Under existing conditions, many intersections did not provide adequate time for pedestrians to safely traverse the northern and southern (east/west) crosswalks between the pedestrian signal heads. As part of the 2025 Build scenario, signals were retimed to provide more time for pedestrians and crossings were shortened to reduce the time required to cross the Boulevard.

**Table 3:** Number of Signal Cycles to Cross Roosevelt Boulevard

| Intersection at Roosevelt Boulevard and       | 2015 Existing & 2025 No Build | 2025 Build & 2025 Build S-BAT |
|---|-------------------------------|-------------------------------|
| Broad Street                                  | 1                             | 1                             |
| Old York Road                                 | 1                             | 1                             |
| 9th Street*                                   | 4                             | 2                             |
| 7th Street                                    | 4                             | 2                             |
| 5th Street                                    | 2                             | 2                             |
| 4th-3rd Street                                | 4                             | 2                             |
| Banks Way Pedestrian Crossing                 | 2                             | 2                             |
| Mascher Street                                | 4                             | 2                             |
| Front Street*                                 | 4                             | 2                             |
| Rising Sun Avenue*                            | 4                             | 2                             |
| B Street Michigan U-Turn                      | n/a                           | 2                             |
| C Street                                      | 4                             | 2                             |
| D Street / Bingham Street Pedestrian Crossing | 2                             | 2                             |
| F Street                                      | 4                             | 2                             |
| Whitaker Avenue (South) - Garland Street      | 4                             | 2                             |
| Whitaker Avenue (North) - Adams Avenue        | 4                             | 2                             |

|   |     |   |
|---|-----|---|
| Tower Blvd  | n/a | 2 |
| Langdon Street                                    | 4   | 2 |
| Summerdale Avenue - Adams Avenue                  | 4   | 2 |
| Allengrove Street Michigan U-turn                 | n/a | 2 |
| Pratt Street                                      | 4   | 2 |
| Bridge Street                                     | 4   | 2 |
| Sanger Street Pedestrian Crossing*                | 2   | 2 |
| Oxford Circle*                                    | 2   | 2 |
| Large Street*                                     | 4   | 2 |
| Devereaux Street*                                 | 4   | 2 |
| Bustleton Avenue*                                 | 4   | 2 |
| Levick Street                                     | 4   | 2 |
| Harbison Avenue                                   | 3   | 2 |
| Unruh Avenue Pedestrian Crossing                  | 2   | 2 |
| Longshore Avenue Pedestrian Crossing              | 3   | 2 |
| Tyson Avenue                                      | 3   | 2 |
| Friendship Street Pedestrian Crossing             | 2   | 2 |
| Cottman Avenue                                    | 2   | 2 |
| Faunce Street /Revere Street Pedestrian Crossing  | 2   | 2 |
| Borbeck Avenue - Ryan Avenue                      | 4   | 2 |
| Rhawn Street                                      | 2   | 2 |
| Holme Avenue - Solly Avenue                       | 2   | 2 |
| Strahle Street                                    | 4   | 2 |
| Woodward Street                                   | 2   | 2 |
| Welsh Road  | 2   | 2 |
| Goodnaw Street                                    | 2   | 2 |
| Grant Avenue                                      | 2   | 2 |
| Whitman Plaza - Fulmer Street Pedestrian Crossing | 2   | 2 |
| Lott Street                                       | 2   | 2 |
| Bowler Street Pedestrian Crossing                 | 2   | 2 |
| Conwell Avenue                                    | 4   | 2 |
| Red Lion Road                                     | 2   | 2 |
| Tomlinson Avenue Pedestrian Crossing              | 2   | 2 |
| Haldeman Avenue                                   | 2   | 2 |
| Plaza Drive                                       | 2   | 2 |
| Comly Road  | 2   | 2 |
| Byberry Road                                      | 3   | 2 |
| Hornig Road - Crown Way                           | 2   | 2 |
| Southampton Road                                  | 2   | 2 |
| Northgate Drive                                   | 1   | 1 |
| Old Lincoln Highway                               | 1   | 1 |

\* Crossing length reduced in Build

## 2025 Build AM Peak

### Network-Wide Demand Served - Automobile

Based on DVRPC's forecast, the overall demand on the corridor increased by 3-4 percent between 2015 and 2025 No Build/Build Conditions at the entry and exit points. As shown in **Table 4**, the Build Scenario had a similar amount of unserved demand (in terms of vehicles entering the network) compared to other scenarios.

**Table 4:** Corridor-Wide Entry and Exit Demand and Model Throughput

| Entry Volume                   |               |               |            |                  |
|--------------------------------|---------------|---------------|------------|------------------|
| Scenario                       | 2015 Existing | 2025 No Build | 2025 Build | 2025 Build S-BAT |
| DVRPC O-D Matrix (vph)*        | 46,981        | 49,057        | 49,057     | 49,057           |
| VISSIM Model (vph)*            | 46,750        | 48,313        | 48,206     | 48,307           |
| Demand Unserved $\Delta$ (vph) | 231           | 744           | 747        | 722              |
| $\Delta\%$                     | 0.5%          | 1.5%          | 1.7%       | 1.5%             |
| Exit Volume                    |               |               |            |                  |
| Scenario                       | 2015 Existing | 2025 No Build | 2025 Build | 2025 Build S-BAT |
| DVRPC O-D Matrix (vph)*        | 41,299        | 42,548        | 42,548     | 42,548           |
| VISSIM Model (vph)*            | 40,074        | 41,123        | 41,588     | 41,566           |
| Demand Unserved $\Delta$ (vph) | 1225          | 1426          | 960        | 982              |
| $\Delta\%$                     | 3.0%          | 3.4%          | 2.3%       | 2.3%             |

\*excludes approaches with origins or destinations connected to other side streets in the model

Among the vehicles that entered the network, more reached their destinations in the Build scenarios (shown in **Table 1**) compared to other scenarios. For example, in the No Build scenario, 1,426 vph (out of 42,548 vph) did not reach their destination. This means they were stuck in the network due to congestion. In the Build scenarios, approximately 450 fewer vph were stuck in congestion compared to No Build conditions, because of improved operations at some locations.

In the AM peak hour Build scenario, while the geometric and signal timing changes improved operations at multiple locations, the following issues resulted:

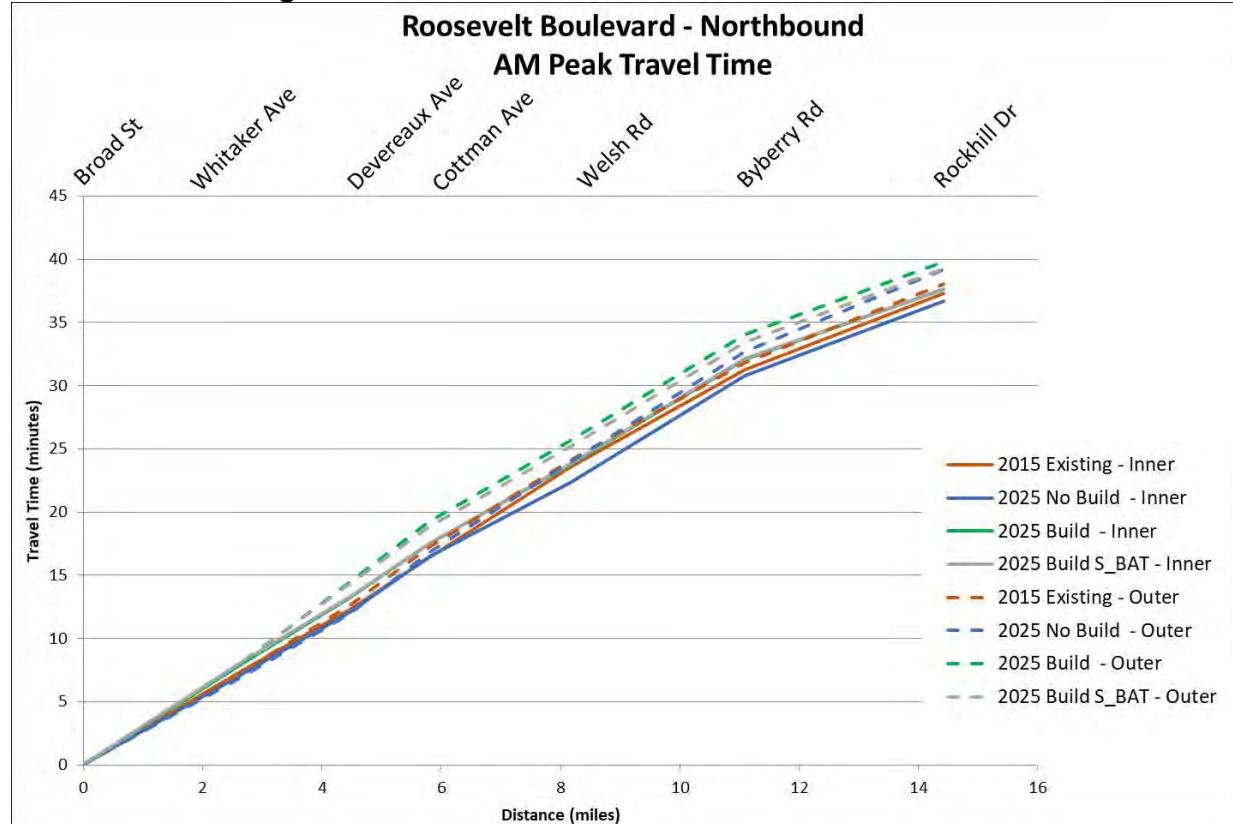
- The vehicular demand on the inner lanes reduced by 400 vph, while the demand on the outer lanes (destined to Broad Street and Hunting Park Avenue) increased by 250 vph. As a result, the reduced capacity on the outer lanes due to BAT had a negative impact in the AM peak hour.
- The Southern section has the longest pedestrian crosswalks across the Boulevard, limiting the green time that could be allocated to the mainline.
- Vehicle origins and destinations were such that multiple lane changes and use of crossovers were required within short distances. For example, about 180 vph from Bingham Street were destined to Rising Sun Avenue on the east side of the Boulevard. As a result, vehicles made 3 lane changes on the outer lanes, used a crossover from the outer to inner lanes, and made 3 lane changes on the inner lanes within 1,700 feet. These vehicles found less gaps in traffic to make lane changes and blocked the through traffic, resulting in a bottleneck.
- The peak direction of travel was towards the City (southbound) with more closely-spaced and congested intersections, which resulted in additional stops per mile of travel.

### Average Travel Time Per User - Automobile

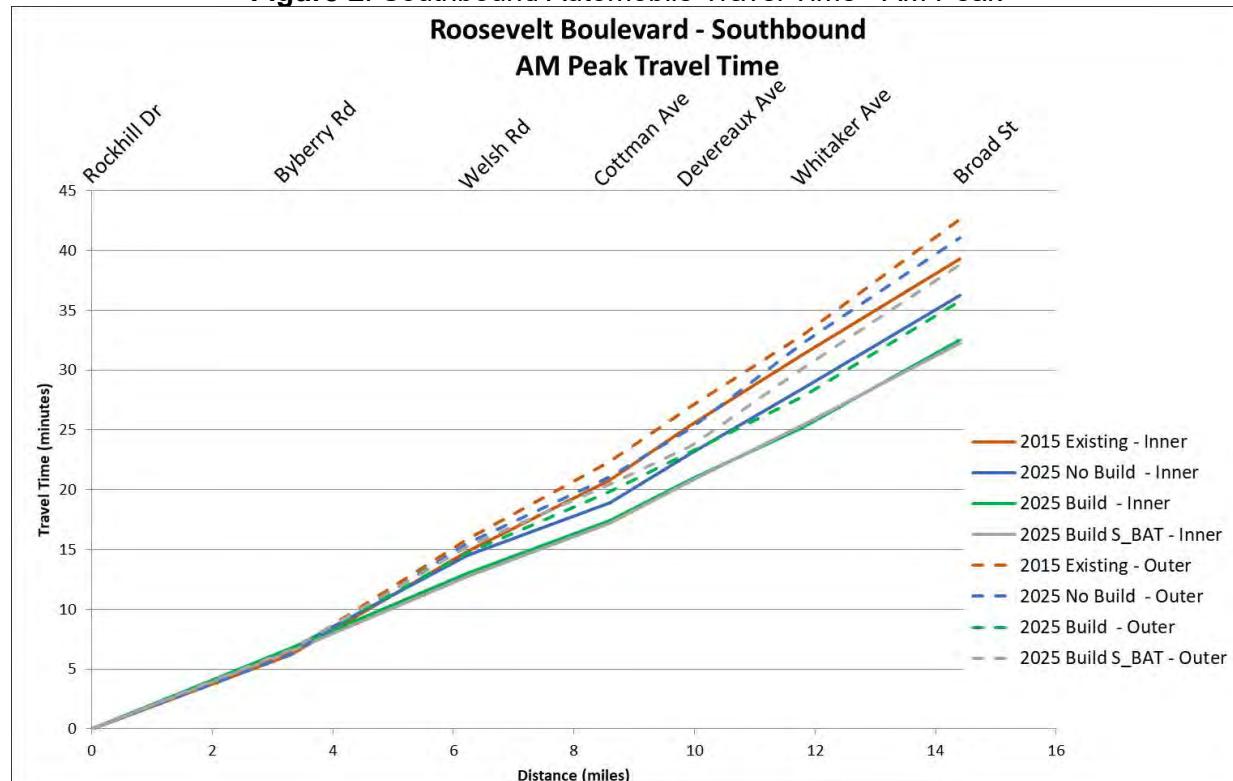
Travel time for passenger cars and trucks was calculated along Roosevelt Boulevard/US Route 1 between Broad Street and Bristol Road (14.4 miles). **Figure 1** presents the travel times for all four scenarios in the off-peak (or northbound) direction. Travel times for both the Build and S-BAT Build scenarios were within 1-2 minutes of 2015 and 2025 No Build Scenarios. There were minor changes in the travel times as the improvements along the corridor were offset by a combination of factors, such as prioritization of signal progression in the peak (southbound) direction, reduced capacity due to BAT Lanes and bump-outs, and southbound left-turn hold phases (which reduced northbound green time).

**Figure 2** presents the AM travel times in the peak (or southbound) direction. Travel times for both Build scenarios were lower than 2015 Existing Conditions and 2025 No Build. While the savings in travel time for the Build and S-BAT Build scenarios was similar on the inner lanes, time savings in the outer lanes were twice as much (compared to Existing Conditions) in the Build scenario without BAT lane on the S-curve.

**Figure 1: Northbound Automobile Travel Time - AM Peak**



**Figure 2: Southbound Automobile Travel Time - AM Peak**



In the peak direction, travel times reduced due to improvements such as:

- Longer cycle length (of 120-seconds) provided more green time for all the movements in a typical peak hour
- Certain traditional left turns were converted to Michigan Lefts to improve the flow of traffic at intersections with complex geometry
- Certain turn bays were extended so that left turning vehicles did not block the mainline movements
- Locations with mainline separated left-turns were converted to lagging lefts to reduce the all-red clearance time
- Traffic signals were re-timed and offsets were adjusted to provide better vehicle progression in the peak direction

#### Average Travel Time Per User - Buses

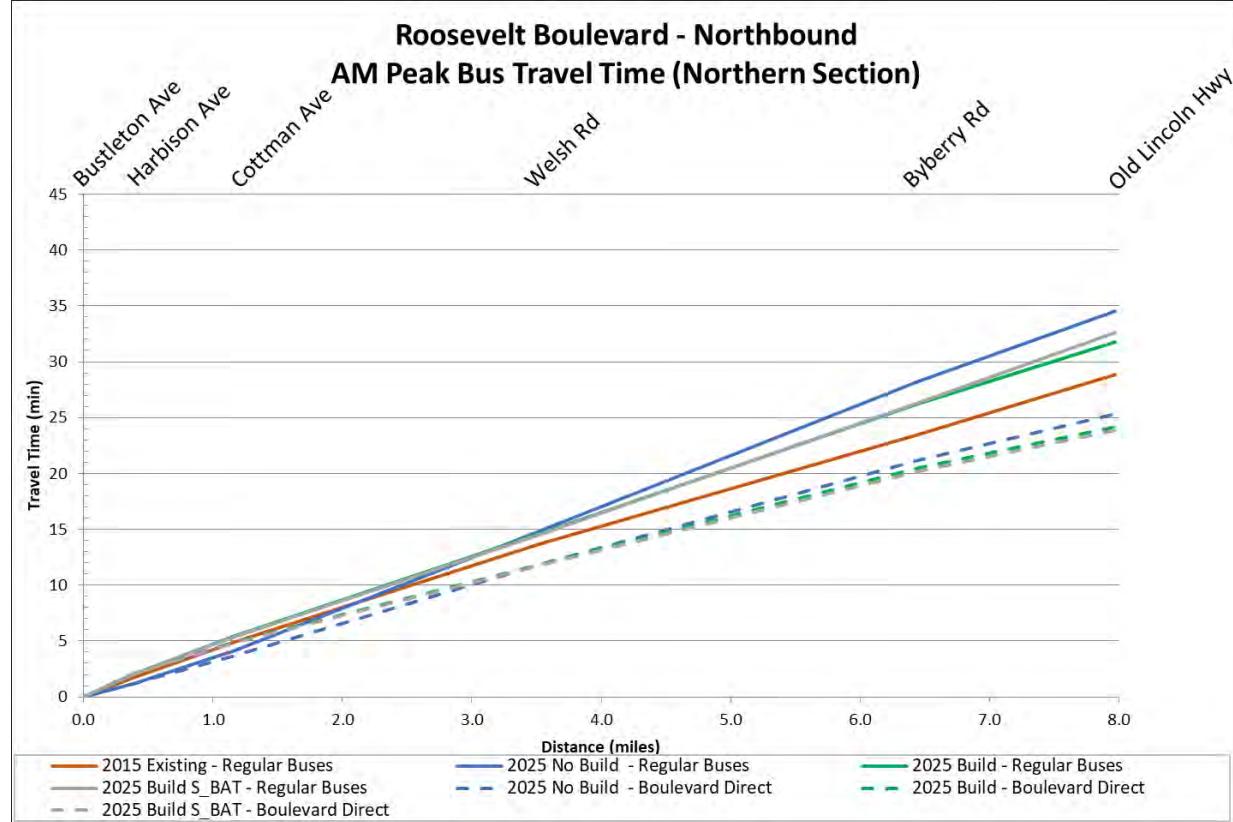
Bus travel times for two (2) sections with BAT Lanes along the Boulevard were compared against Existing and No Build conditions. The Northern Section is between Bustleton Avenue and Old Lincoln Highway. The Southern Section is between Broad Street and Bridge Street.

**Figure 3** and **Figure 4** present the bus travel times in the Northern section for the northbound and southbound directions respectively. These figures present the Build S-BAT scenario as well to understand the impact of the S-curve on overall throughput of the corridor and its impact on bus operations.

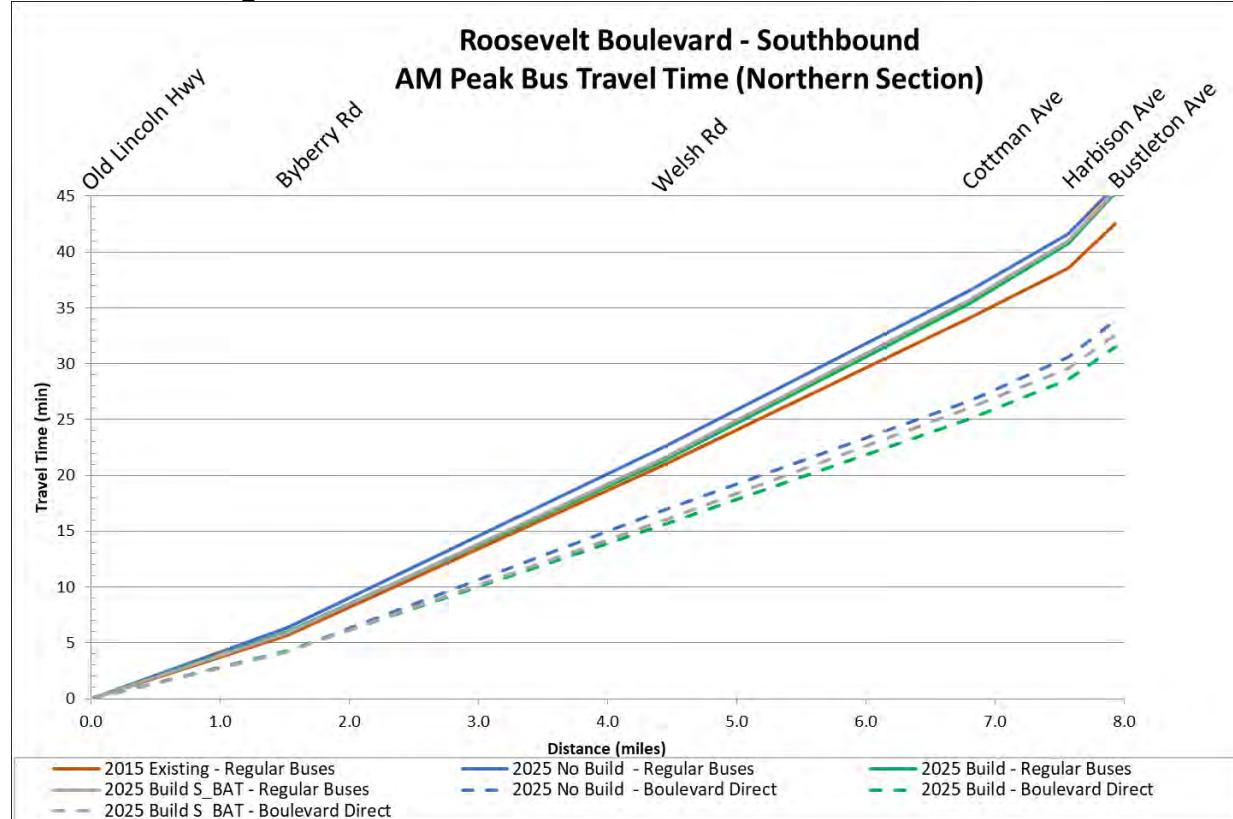
In the off-peak (northbound) direction, travel times of Regular Buses in both Build scenarios were higher than 2015 Existing Conditions but lower than 2025 No Build Conditions. In the peak (southbound) direction, the travel times of Regular Buses for the Build scenarios were similar to the 2025 No Build travel times and higher than those of the 2015 Existing Conditions. Regular Buses had longer travel times in 2025 conditions as they were restricted to a single BAT lane in each direction compared to having no restriction on lane usage in Existing Conditions.

In both directions, Boulevard Direct operated with lower travel times than Regular Buses.

**Figure 3: AM Northbound Bus Travel Times - Northern Section**



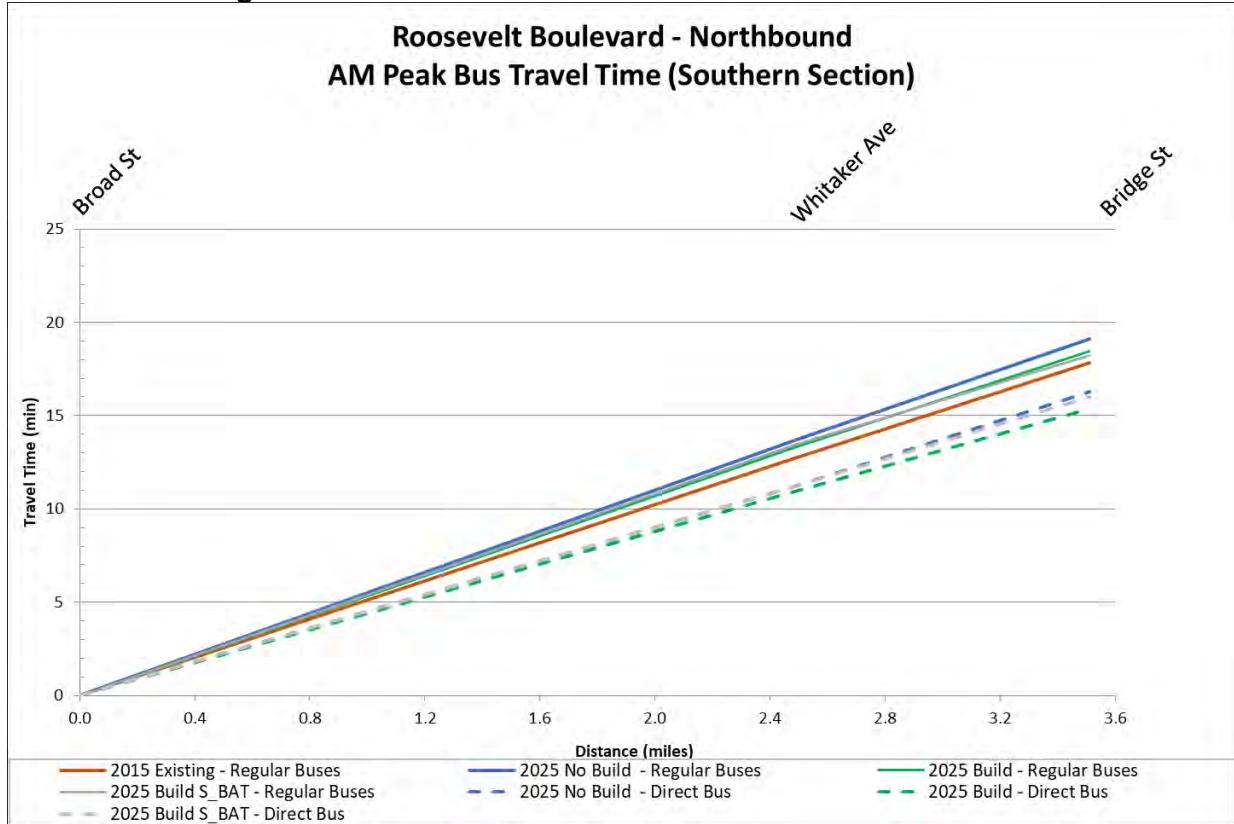
**Figure 4: AM Southbound Bus Travel Times - Northern Section**



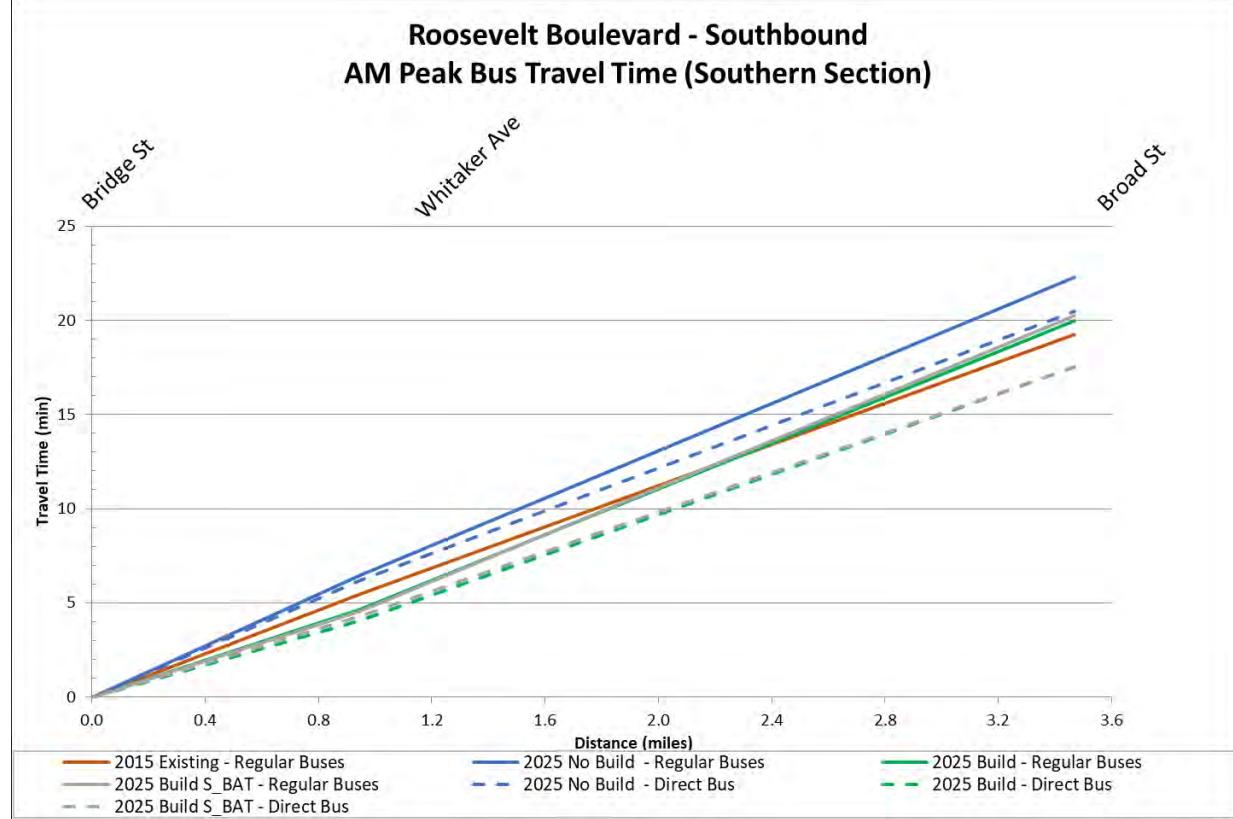
**Figure 5** and **Figure 6** present the AM bus travel times in the Southern section for the northbound and southbound directions respectively. In the off-peak (northbound) direction, the Build scenarios had slightly lower travel times compared to the No Build scenario. In the peak (southbound) direction, travel time for the Build scenario was better than the No Build scenario by 2.5 minutes.

Generally, Direct Bus B services had lower travel times throughout the corridor compared to the average for all buses. This can be attributed to the fact that these buses made fewer stops along their route and could overtake cars and buses; whereas regular buses could only use the BAT lane.

**Figure 5: AM Northbound Bus Travel Times - Southern Section**



**Figure 6: AM Southbound Bus Travel Times - Southern Section**



#### LOS and Delay Changes - Automobile

Of the 47 intersections along the Boulevard (excluding the signalized pedestrian crossings), 55 percent of the intersections had reduced intersection delay in the Build scenarios. Ten (10) intersections showed a reduction in the overall delay by more than 10 seconds in Build scenarios.

**Table 5** presents the difference in intersection delay compared to Existing Conditions in each of the scenarios. In the Existing Conditions, all intersections along Roosevelt Boulevard operated at LOS D or better. The intersection at Southampton Road that operated at LOS F in 2025 No Build scenario improved to LOS E in the Build scenarios with signal timing optimization. In all the 2025 scenarios, the intersection at the Old York Road operated at LOS E due to increased demand. For more detailed information on movement delay at all the intersections, refer to **Appendix B**.

Intersection vehicular delay increased by more than 10 seconds per vehicle compared to Existing Conditions at three (3) and four (4) intersections respectively in the Build and S-BAT scenarios. The locations include Old York Road, Oxford Circle, Tyson Avenue, and Southampton Road:

- In the No Build and Build scenarios, vehicular volume destined to Broad Street and Hunting Park Avenue via the outer lanes of Boulevard increased by 250 vph. Vehicles accessing Broad Street had to make a left-turn at Bristol Avenue had limited capacity, resulting in occasional queues extending beyond 9<sup>th</sup> Street. This resulted in higher delay at Old York Road intersection.
- At Oxford Circle, in 2025 No Build and Build scenarios the vehicle trips between side streets on the west and east side of the Circle increased. Most of these vehicles were destined to Oxford Avenue on the east side of the Circle with a single receiving lane. This resulted in congestion

- within the Circle. Additionally, in the Build S-BAT scenario, the outer lanes were occasionally congested due to downstream bottlenecks.
- The crossover from outer to inner lanes in the southbound direction between Rising Sun Avenue and C Street was congested in both Build scenarios. There were about 180 vph from Bingham Street on the west side of the Boulevard destined to Rising Sun Avenue on the east side. These vehicles had only 1,700 feet to make six (6) lane changes and use a crossover, resulting in queues.
  - At many intersections, side street traffic turning onto the Boulevard avoided the outer lanes, waiting for a gap to enter the inner lanes. Therefore, the turn-store area in the median was frequently blocked, resulting in higher delay and queues. At Tysons Avenue, this resulted in failing LOS on multiple approaches.
  - At Southampton Road, vehicular demand on southbound approach increased significantly in the No Build and Build scenarios compared to Existing Conditions. The southbound left-turn continued to fail in these scenarios, occasionally blocking through traffic.

**Table 5:** AM Intersection Delay/LOS Comparison of 2015 Existing, 2025 No Build and 2025 Build

| Intersection at Roosevelt Boulevard and  | Existing Conditions |     | Delay Δ (secs)<br>2025 No Build | Delay Δ (secs)<br>2025 Build | Delay Δ (secs)<br>2025 Build<br>S-BAT |
|--|---------------------|-----|---------------------------------|------------------------------|---------------------------------------|
|  | Delay (secs)        | LOS |                                 |                              |                                       |
| Broad Street                             | 10.1                | B   | 2.4                             | 2.4                          | 2.5                                   |
| Old York Road                            | 20.2                | C   | 39.3                            | 47.0                         | 37.4                                  |
| 9th Street                               | 20.6                | C   | -0.5                            | -3.6                         | -4.1                                  |
| 7th Street                               | 25.6                | C   | -3.6                            | -11.0                        | -10.1                                 |
| 5th Street                               | 22.6                | C   | -6.4                            | -0.3                         | 0.4                                   |
| 4th-3rd Street                           | 21.0                | C   | -3.7                            | -5.4                         | -0.8                                  |
| Mascher Street                           | 18.7                | B   | 1.9                             | -0.1                         | 1.6                                   |
| Front Street                             | 9.7                 | A   | -2.9                            | 1.6                          | 2.9                                   |
| Rising Sun Avenue                        | 20.7                | C   | 11.0                            | 1.3                          | 0.8                                   |
| C Street                                 | 30.7                | C   | -0.6                            | 7.4                          | 3.4                                   |
| F Street                                 | 25.0                | C   | -1.6                            | 2.2                          | 3.4                                   |
| Whitaker Avenue (South) - Garland Street | 16.8                | C   | -2.5                            | -4.8                         | -3.7                                  |
| Whitaker Avenue (North) - Adams Avenue   | 20.2                | C   | 2.3                             | -2.3                         | -2.1                                  |
| Tower Boulevard                          | 8.1                 | A   | -2.9                            | -4.9                         | -4.2                                  |
| Langdon Street                           | 17.1                | B   | 1.0                             | -2.5                         | -2.0                                  |
| Summerdale Avenue - Adams Avenue         | 54.1                | D   | 0.7                             | -31.1                        | -25.1                                 |
| Pratt Street                             | 14.5                | B   | -2.1                            | -0.5                         | -0.2                                  |
| Bridge Street                            | 10.2                | B   | 3.9                             | 1.2                          | 5.3                                   |
| Oxford Circle                            | 19.9                | B   | 8.8                             | 2.5                          | 11.8                                  |
| Large Street                             | 12.6                | B   | 0.5                             | 3.8                          | 5.8                                   |
| Devereaux Street                         | 23.5                | C   | -6.8                            | 4.9                          | -1.1                                  |

XXX Delay increased by more than 10 seconds compared to Existing Conditions

XXX Delay decreased by more than 10 seconds compared to Existing Conditions

**Table 5:** AM Intersection Delay/LOS Comparison of 2015 Existing, 2025 No Build and 2025 Build

| Intersection at Roosevelt Boulevard and | Existing Conditions |     | Delay Δ (secs)<br>2025 No Build | Delay Δ (secs)<br>2025 Build | Delay Δ (secs)<br>2025 Build<br>S-BAT |
|---|---------------------|-----|---------------------------------|------------------------------|---------------------------------------|
|   | Delay (secs)        | LOS |                                 |                              |                                       |
| Bustleton Avenue                        | 13.1                | B   | 10.8                            | 2.0                          | -1.5                                  |
| Lewick Street                           | 32.1                | C   | 0.0                             | -15.3                        | -14.8                                 |
| Harbison Avenue                         | 27.6                | C   | -1.1                            | -5.3                         | -5.8                                  |
| Tyson Avenue                            | 25.4                | C   | -1.3                            | 14.1                         | 14.1                                  |
| Cottman Avenue                          | 20.0                | C   | 0.5                             | 0.7                          | 0.6                                   |
| Borbeck Avenue - Ryan Avenue            | 39.9                | D   | -9.4                            | -14.2                        | -14.1                                 |
| Rhawn Street                            | 38.3                | D   | -18.2                           | -10.8                        | -10.7                                 |
| Holme Avenue - Solly Avenue             | 22.5                | C   | 6.2                             | 3.9                          | 5.0                                   |
| Strahle Street                          | 16.7                | B   | -6.4                            | -3.6                         | -3.5                                  |
| Woodward Street                         | 46.0                | D   | -22.0                           | -28.4                        | -28.4                                 |
| Welsh Road                              | 44.9                | D   | -3.8                            | -12.4                        | -12.4                                 |
| Goodnaw Street                          | 20.6                | C   | 2.8                             | 6.6                          | 6.6                                   |
| Grant Avenue                            | 47.6                | D   | 2.0                             | -10.2                        | -10.4                                 |
| Whitman Plaza - Fulmer Street           | 14.6                | B   | 0.8                             | 2.7                          | 1.4                                   |
| Lott Street                             | 23.9                | C   | -5.9                            | -4.6                         | -4.0                                  |
| Conwell Avenue                          | 10.8                | B   | 1.6                             | 5.5                          | 5.2                                   |
| Red Lion Road                           | 40.4                | D   | -2.2                            | -8.0                         | -8.2                                  |
| Haldeman Avenue                         | 21.2                | C   | -2.7                            | -3.7                         | -3.2                                  |
| Plaza Drive                             | 23.3                | C   | 3.1                             | -14.9                        | -16.1                                 |
| Nabisco Drive                           | 3.7                 | A   | 0.3                             | 9.4                          | 8.2                                   |
| Comly Road                              | 29.3                | C   | -0.9                            | -9.9                         | -9.6                                  |
| Byberry Road                            | 15.7                | B   | 6.2                             | 1.6                          | 1.1                                   |
| Hornig Road - Crown Way                 | 29.9                | C   | 2.1                             | -14.8                        | -15.4                                 |
| Southampton Road                        | 44.0                | D   | 40.1                            | 29.5                         | 29.2                                  |
| Northgate Drive                         | 16.3                | B   | 2.9                             | 3.1                          | 3.1                                   |
| Old Lincoln Highway                     | 23.6                | C   | -4.8                            | -2.2                         | -2.9                                  |

**XXX** Delay increased by more than 10 seconds compared to Existing Conditions

**XXX** Delay decreased by more than 10 seconds compared to Existing Conditions

#### Queue Length – Automobile

Locations where queues increased or decreased by more than 20 percent and 50 feet in Build scenarios compared to Existing Conditions are discussed in this section. To review the more detailed queuing information movement for the entire study area, refer to **Appendix C**. Overall, the proposed 120-second cycle length, BAT lanes and bump-outs contributed to longer queues in the Build conditions.

- The increased demand to Broad Street in the southern section of the corridor, resulted in queues at the intersections with Broad Street and Old York Road. Occasionally, this southbound queue reached 9<sup>th</sup> Street.
- The increased demand between Bingham Street on the west side of the Boulevard destined to Rising Sun Avenue on the east side in 2025 resulted in multiple lane changes. This coupled with BAT lanes in this section resulted in longer queues at C Street, D Street, and F Street.
- At certain locations, queue length increases can be attributed to BAT lanes and bump-outs as they reduced capacity in the outer lanes or caused a volume shift to the inner lanes. These locations included 5<sup>th</sup> Street, Pratt Street, Devereaux Avenue, and Tyson Avenue. In the S-BAT scenario, intersections along S-curve at Whitaker Avenue, Summerdale Avenue, and Langdon Street experienced longer queues.
- Northbound queues increased at C Street, Bustleton Avenue, and Tysons Avenue due to the introduction of a hold-phase for southbound left-turn movement.
- To compensate for the reduced mainline capacity due to BAT lane and bump-outs, green time was shifted from the side street to the Boulevard wherever feasible. This shift resulted in longer queues along 4<sup>th</sup> Street, C Street, F Street, Bridge Street, and Langdon Street.
- At Old Lincoln Highway, eastbound right turn queues increased, as the movement was signalized in Build conditions compared to yield condition in Existing and No Build Conditions. Southbound left-turn queues increased, as the phase was converted to lagging. Both of these changes were proposed to improve pedestrian safety.
- Between Tyson Avenue and Red Lion Road, multiple queues were reduced due to the conversion of mainline left-turns to lagging phases, resulting in 3-4 seconds of additional green-time per cycle. Queues and delays increased on eastbound approach of Red Lion Road as the offset left configuration reduced the eastbound through lanes from 2 to 1.
- Queues from the southbound left-turn at Southampton Avenue degraded in No Build due to additional demand. This condition improved in Build scenarios through signal timing but needs further improvements.

## 2025 Build PM Peak

### Network-Wide Demand Served - Automobile

Based on DVRPC's forecasts, the overall corridor demand increased by 3-4 percent between 2015 and 2025 No Build/Build Conditions at the entry and exit points. As shown in **Table 6**, the 2025 Build Scenario served the highest vehicular traffic in terms of both the entry and exit volumes of the study corridor followed by the Build S-BAT scenario.

Among the vehicles that entered the network, more vehicles reached their destinations in the Build scenarios (shown in **Table 6**) compared to other scenarios. For example, in the No Build scenario, 762 vph did not reach their destination. This means they were stuck in the network due to congestion. Comparatively in the Build scenario, approximately 80 vph were stuck in congestion, because of improved operations at some locations. Results indicate that there are no significant operational issues in the Build scenario.

While better than No Build scenario, 387 vph get stuck in the network due to BAT lanes on the S-Curve in the S-BAT scenario.

**Table 6:** Corridor-Wide Entry and Exit Demand and Model Throughput

| Entry Volume            |               |               |            |                  |
|-------------------------|---------------|---------------|------------|------------------|
| Scenario                | 2015 Existing | 2025 No Build | 2025 Build | 2025 Build S-BAT |
| DVRPC O-D Matrix (vph)* | 49,987        | 51,851        | 51,851     | 51,851           |
| VISSIM Model (vph)*     | 49,734        | 51,056        | 51,384     | 51,317           |
| Demand Unserved Δ (vph) | 252           | 858           | 482        | 648              |
| Δ%                      | 0.5%          | 1.7%          | 0.9%       | 1.1%             |
| Exit Volume             |               |               |            |                  |
| Scenario                | 2015 Existing | 2025 No Build | 2025 Build | 2025 Build S-BAT |
| DVRPC O-D Matrix (vph)* | 44,054        | 45,415        | 45,415     | 45,415           |
| VISSIM Model (vph)*     | 43,550        | 44,654        | 45,337     | 45,029           |
| Demand Unserved Δ (vph) | 504           | 762           | 79         | 387              |
| Δ%                      | 1.1%          | 1.7%          | 0.2%       | 0.9%             |

\*excludes the approaches with origins or destinations connected to other side streets in the model

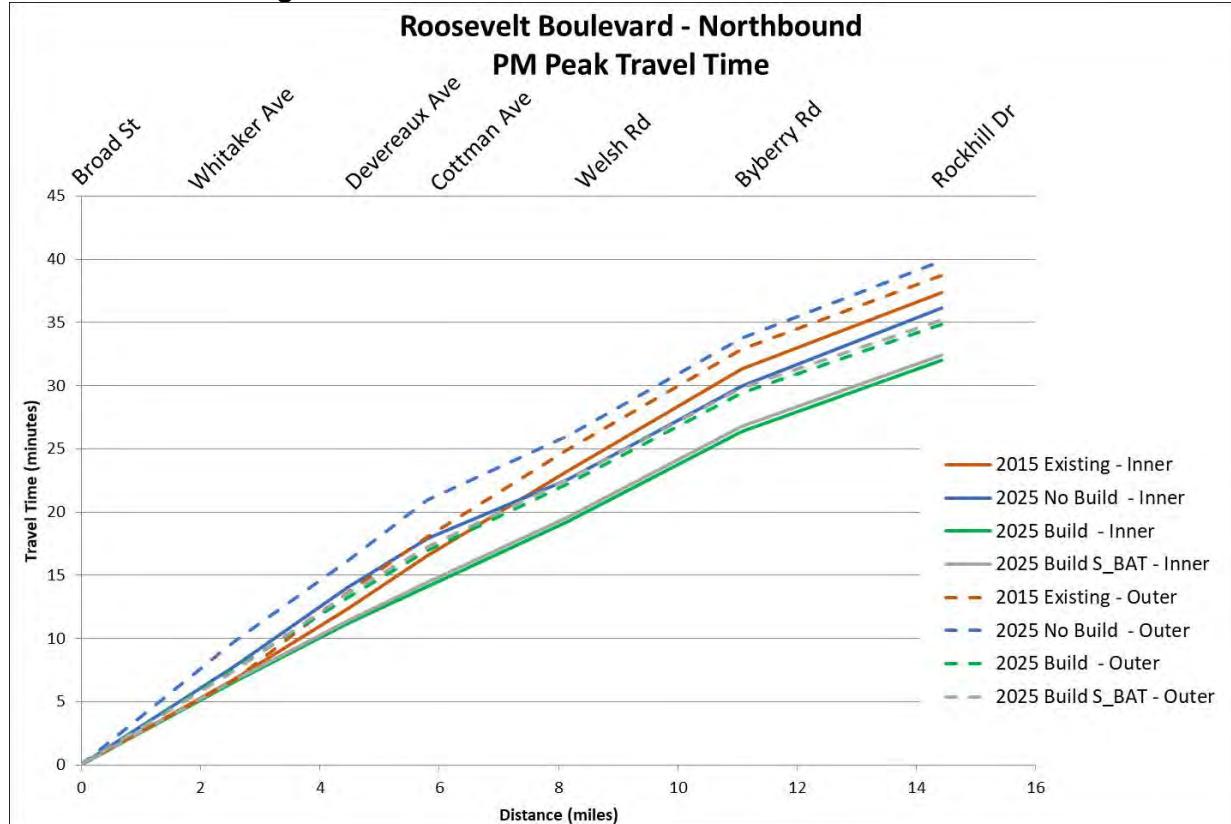
#### Average Travel Time Per User - Automobile

Travel time for passenger cars and trucks were calculated along Roosevelt Boulevard/US Route 1 between Broad Street and Bristol Road (14.4 miles). **Figure 7** presents the travel times for all four scenarios in the peak (northbound) direction. Travel times for both the Build and S-BAT Build scenarios were lower compared with the 2015 and 2025 No Build Scenarios. The travel times reduced due to the improvements along the corridor despite the BAT lanes and bump-outs in the outer lanes.

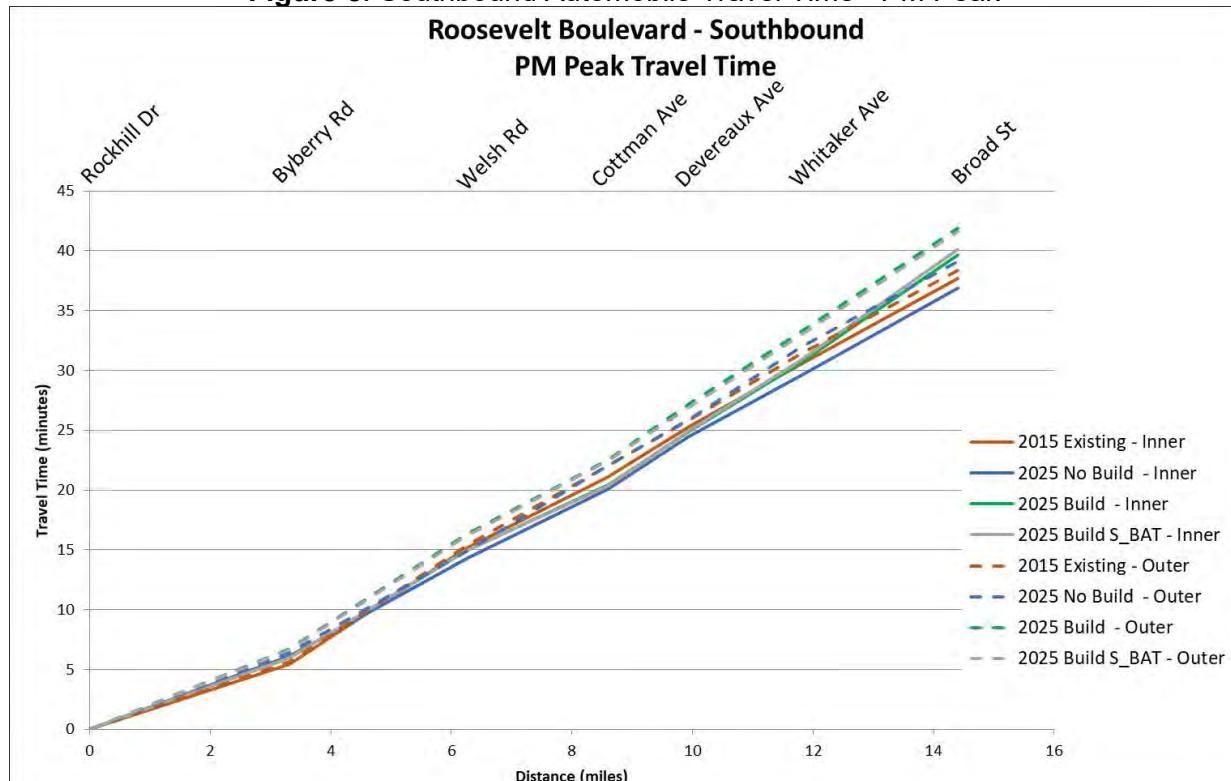
**Figure 8** presents the PM travel times in the off-peak (southbound) direction. Travel times for both Build scenarios were higher than the 2015 Existing and 2025 No Build Travel Times. There was an increase of 2-3 minutes in the inner and outer lane travel times compared to No Build due to a combination of factors:

- Prioritization of signal progression in the peak (northbound) direction
- Northbound left-turn hold phases (which reduced southbound green time)
- Additional Michigan Left signal at B Street in southbound direction
- Elimination of the westbound left turn from Adams Avenue to eastbound Whitaker Avenue led to 20-30 vph (from Tower Boulevard and other Right-In Right-Out streets south of Bridge Street) making multiple lane changes to make U-turns at C St, F St and Rising Sun Avenue to access northbound Boulevard, thereby increasing the delay in this segment.

**Figure 7: Northbound Automobile Travel Time - PM Peak**



**Figure 8: Southbound Automobile Travel Time - PM Peak**

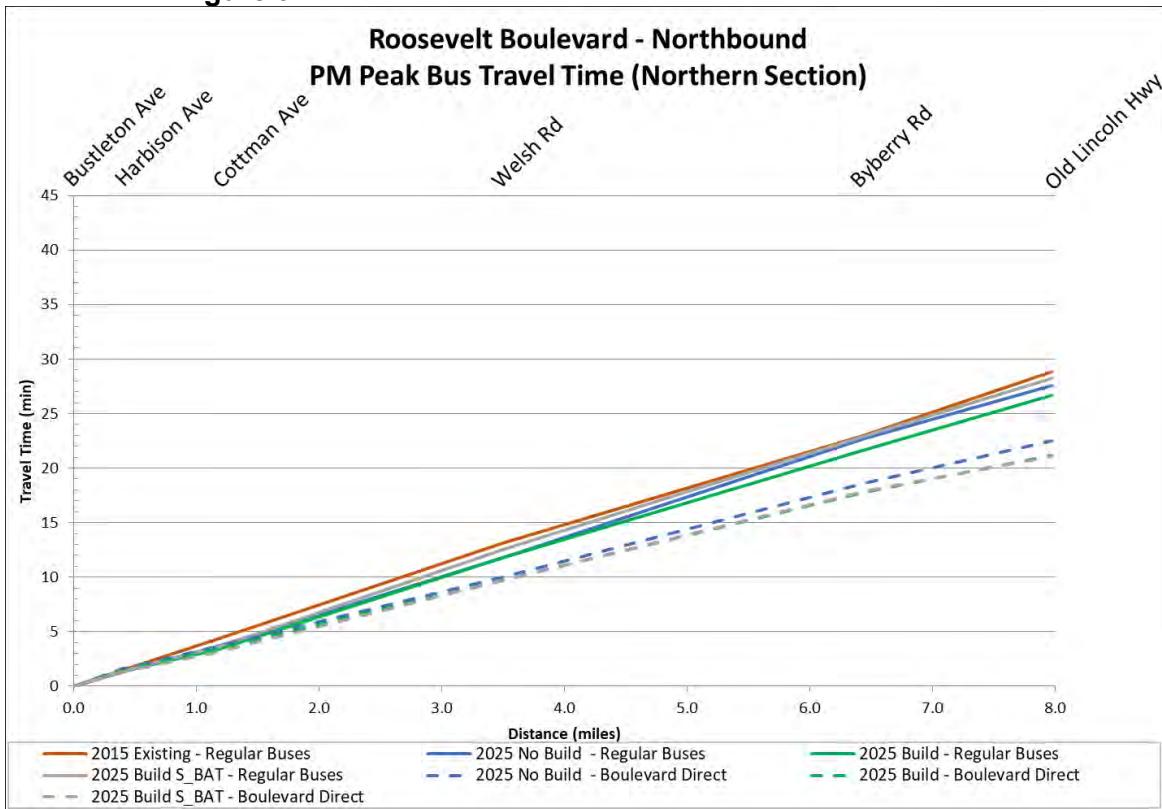


## Average Travel Time Per User - Buses

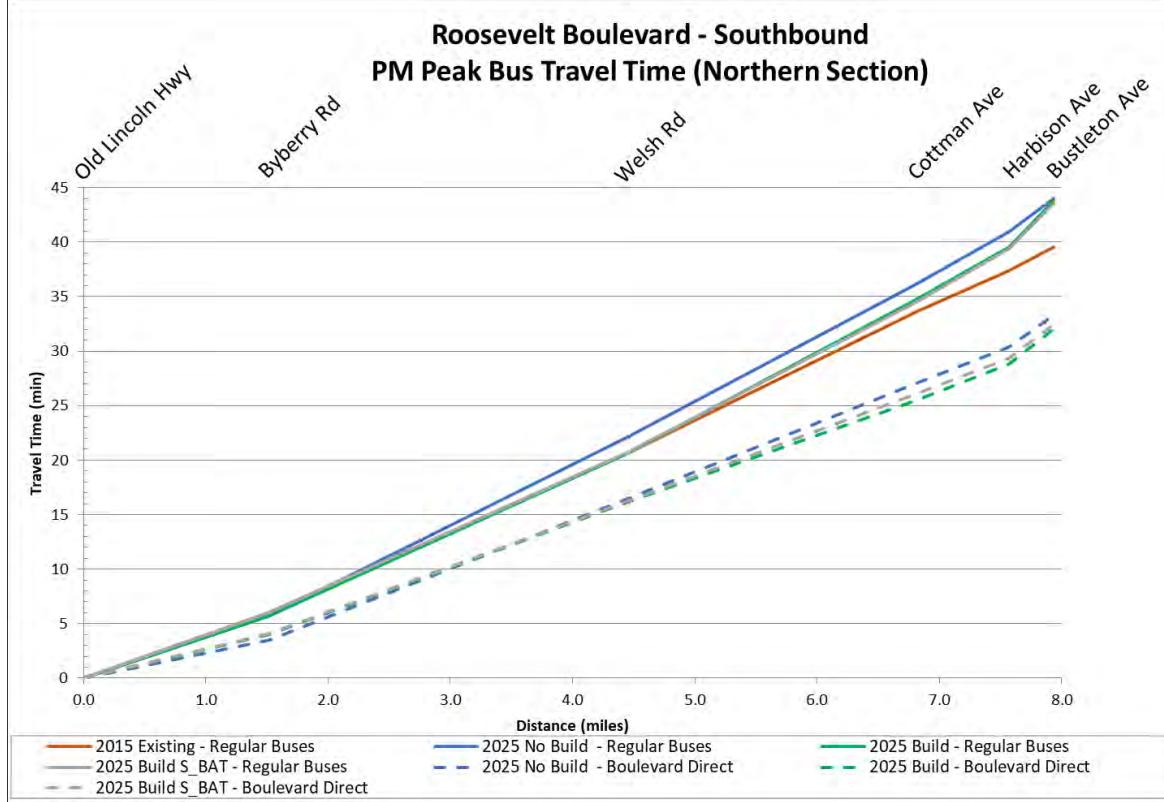
**Figure 9** and **Figure 10** present the travel times for buses (in the Northern section) for the northbound and southbound directions respectively. These figures present the Build S-BAT scenario as well to understand the impact of the S-curve on overall corridor throughput and its impact on buses. In the peak (northbound) direction travel time for all the 2025 scenarios was lower than 2015 Existing Conditions with highest savings in 2025 Build scenario. In the off-peak direction (southbound) the 2025 bus travel times for both Build scenarios were higher compared to 2015 Existing Conditions but lower than travel times for 2025 No Build Conditions.

Generally, Boulevard Direct services had lower travel times compared to regular buses. This can be attributed to the fact that these buses made fewer stops along their route and could overtake cars and buses; whereas the regular buses were restricted to the BAT lanes.

**Figure 9: PM Northbound Bus Travel Times - Northern Section**



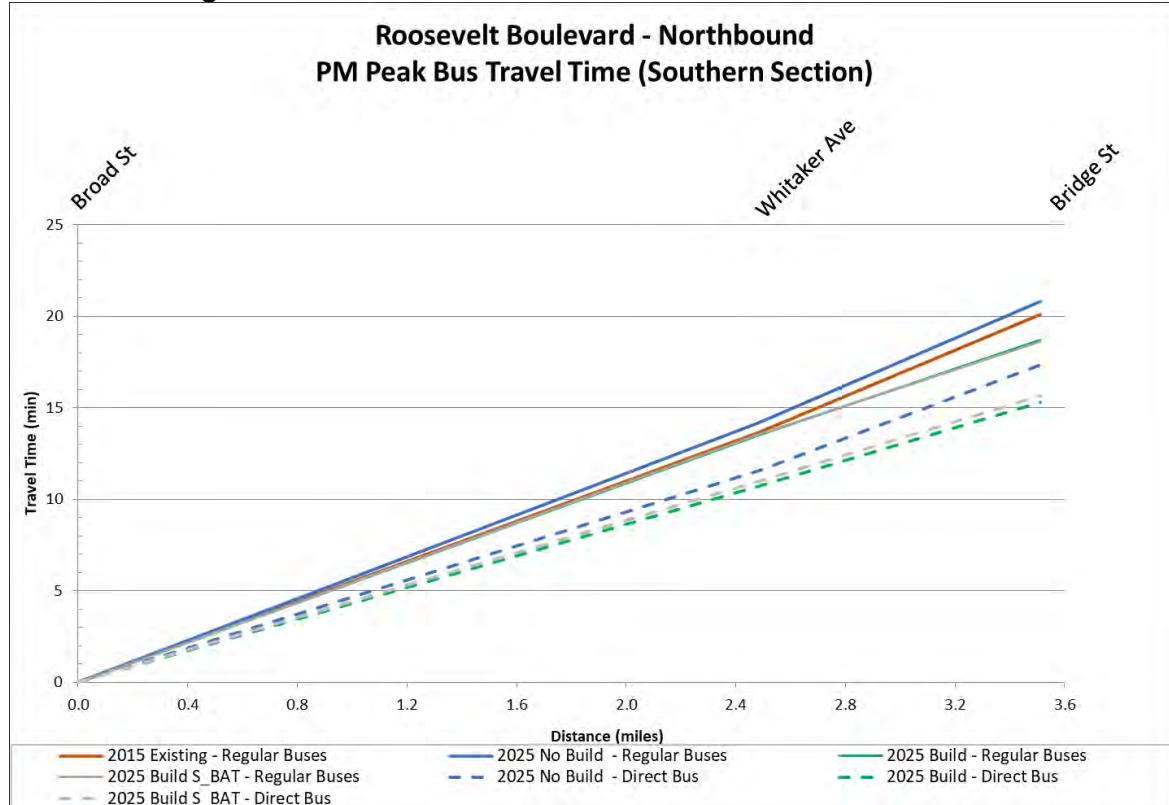
**Figure 10: PM Southbound Bus Travel Times - Northern Section**



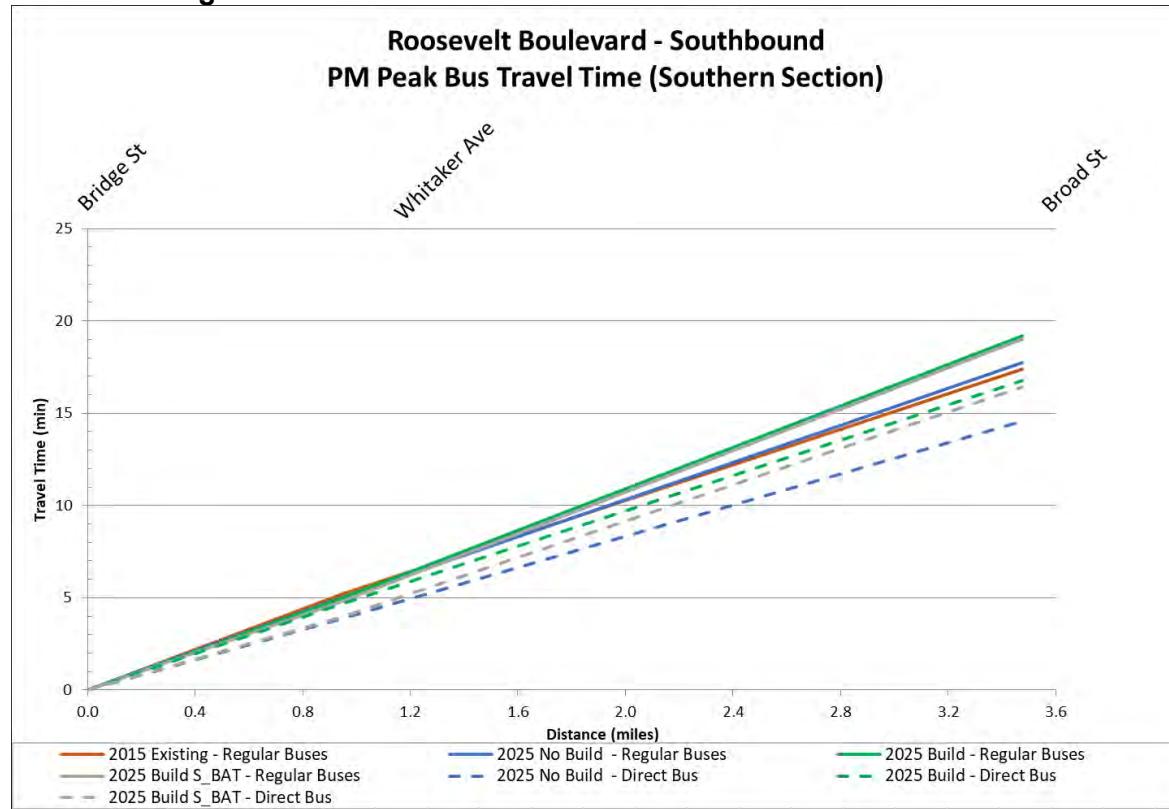
**Figure 11** presents the PM bus travel times in the northbound direction for the Southern section. the Build scenarios had lower travel times compared to Existing and No Build scenarios. **Figure 12** presents the bus travel times in the southbound direction for the Southern section. The Build travel times were slightly higher compared to the No Build scenario, similar to the travel time trend for cars and trucks. This was because the signal progression was optimized for the opposite (northbound) direction in the Build scenarios.

In all the scenarios, Direct Bus D had lower travel times compared to regular buses.

**Figure 11: PM Northbound Bus Travel Times - Southern Section**



**Figure 12: PM Southbound Bus Travel Times - Southern Section**



## LOS and Delay - Automobile

Similar to 2015 Existing Conditions, in 2025 Build and 2025 Build S-BAT scenarios, all intersections on Roosevelt Boulevard operated at LOS D or better based on overall intersection delay. The intersection at Southampton Road that operated at LOS E in 2025 No Build scenario was improved to LOS D in the Build scenarios with lead-lag optimization. **Table 7** presents the difference in intersection delay compared to Existing Conditions in each of the scenarios. For more detailed information on movement delay at all the intersections, refer to **Appendix B**.

Of the 47 intersections along the Boulevard (excluding the signalized pedestrian crossings), nearly 60 percent of the intersections had reduced intersection delay in the Build scenario. For the Build and S-BAT scenarios respectively, nine (9) and eight (8) intersections showed a reduction in the overall delay by more than 10 seconds due to various improvements presented in **Table 1** and discussed earlier in this memo. For example, at the Langdon Street and Summerdale Avenue/Adams Avenue intersections, elimination of mainline left-turn phases significantly improved the congestion along the S-curve in Build scenarios – a major bottleneck in the Existing and No Build scenarios.

Intersection vehicular delay increased at four (4) intersections including Rising Sun Avenue, C Street, F Street, and Large Street by more than 10 seconds per vehicle compared to Existing Conditions:

- In the Build scenarios, at Rising Sun Avenue the northbound left-turn was eliminated to reduce the pedestrian crossing distance. These vehicles used a proposed U-turn at B Street and the dual left-turn lane at Front Street. This resulted in additional turbulence on the southbound approach and thus increased the overall intersection delay at Rising Sun Avenue and C Street in the off-peak direction.
- At Rising Sun Avenue and F Street, demand on southbound U-turn movement increased in the Build scenarios due to the elimination of the westbound left turn from Adams Avenue to eastbound Whitaker Avenue. In No Build, vehicles originating south of Bridge Street that cannot access the inner lanes (such as from Tower Boulevard) used this connection to move to the inner lane to make a southbound left turn at the Whitaker Avenue intersection. When the connection was eliminated, these vehicles were forced to make southbound U-turns at Rising Sun Avenue, C Street and F Street to travel back north on the Boulevard.
- At Large Street and F Street, a hold phase was introduced for northbound left-turning vehicles. As a result, the green time for off peak direction (southbound) was lower compared to Existing Conditions increasing the delay on the southbound approach.

**Table 7: PM Intersection Delay/ LOS Comparison of 2015 Existing, 2025 No Build and 2025 Build**

| Intersection at Roosevelt Boulevard and | Existing Conditions   |     | Delay Δ (secs)<br>2025 No Build | Delay Δ (secs)<br>2025 Build | Delay Δ (secs)<br>2025 Build<br>S-BAT |
|---|---|-----|---------------------------------|------------------------------|---------------------------------------|
|   | Delay (secs)  | LOS |                                 |                              |                                       |
| Broad Street                            | 15.3  | B   | -1.3                            | -0.9                         | -0.9                                  |
| Old York Road                           | 20.1  | C   | 2.1                             | 2.5                          | 2.3                                   |
| 9th Street                              | 19.0  | B   | 0.6                             | 4.5                          | 4.6                                   |
| 7th Street                              | 18.5  | B   | 2.5                             | 7.6                          | 6.6                                   |
| 5th Street                              | 21.0  | C   | 3.5                             | 8.3                          | 5.0                                   |
| 4th-3rd Street                          | 20.7  | C   | 13.2                            | 3.8                          | 4.0                                   |
| XXX                                     | Delay increased by more than 10 seconds compared to Existing Conditions |     |                                 |                              |                                       |
| XXX                                     | Delay decreased by more than 10 seconds compared to Existing Conditions |     |                                 |                              |                                       |

**Table 7:** PM Intersection Delay/ LOS Comparison of 2015 Existing, 2025 No Build and 2025 Build

| Intersection at Roosevelt Boulevard and  | Existing Conditions |     | Delay Δ (secs)<br>2025 No Build | Delay Δ (secs)<br>2025 Build | Delay Δ (secs)<br>2025 Build<br>S-BAT |
|--|---------------------|-----|---------------------------------|------------------------------|---------------------------------------|
|  | Delay (secs)        | LOS |                                 |                              |                                       |
| Mascher Street                           | 11.5                | B   | 3.8                             | -1.7                         | -0.5                                  |
| Front Street                             | 6.2                 | A   | 12.4                            | 2.1                          | 2.5                                   |
| Rising Sun Avenue                        | 12.3                | B   | 3.9                             | 11.9                         | 14.6                                  |
| C Street                                 | 18.5                | B   | 3.1                             | 10.1                         | 10.5                                  |
| F Street                                 | 22.6                | C   | 7.3                             | 15.7                         | 21.1                                  |
| Whitaker Avenue (South) - Garland Street | 20.7                | C   | 7.2                             | -10.4                        | -8.8                                  |
| Whitaker Avenue (North) - Adams Avenue   | 14.4                | B   | 9.6                             | 4.6                          | 6.3                                   |
| Tower Boulevard                          | 11.9                | B   | -3.9                            | -4.2                         | 0.2                                   |
| Langdon Street                           | 43.2                | D   | 1.6                             | -27.3                        | -25.2                                 |
| Summerdale Avenue - Adams Avenue         | 40.6                | D   | -10.9                           | -25.8                        | -24.8                                 |
| Pratt Street                             | 20.2                | C   | -2.5                            | -4.0                         | -5.7                                  |
| Bridge Street                            | 12.0                | B   | 5.1                             | 6.0                          | 6.6                                   |
| Oxford Circle                            | 6.9                 | A   | 1.5                             | 2.6                          | 2.2                                   |
| Large Street                             | 13.2                | B   | 3.4                             | 18.0                         | 16.9                                  |
| Devereaux Street                         | 15.6                | B   | -1.4                            | -0.2                         | 0.4                                   |
| Bustleton Avenue                         | 16.7                | B   | 6.6                             | -7.5                         | -6.7                                  |
| Lewick Street                            | 26.1                | C   | 2.2                             | 1.9                          | 1.9                                   |
| Harbison Avenue                          | 26.9                | C   | 0.2                             | -0.1                         | 4.3                                   |
| Tyson Avenue                             | 46.7                | D   | -17.6                           | -14.1                        | -11.0                                 |
| Cottman Avenue                           | 30.4                | C   | -4.2                            | -5.0                         | -4.8                                  |
| Borbeck Avenue - Ryan Avenue             | 50.3                | D   | 2.0                             | -23.1                        | -21.2                                 |
| Rhawn Street                             | 43.7                | D   | -13.6                           | -15.5                        | -16.4                                 |
| Holme Avenue - Solly Avenue              | 29.4                | C   | 1.9                             | -4.0                         | -2.4                                  |
| Strahle Street                           | 19.5                | B   | -9.9                            | -10.0                        | -9.6                                  |
| Woodward Street                          | 43.4                | D   | -6.8                            | -16.2                        | -16.5                                 |
| Welsh Road                               | 48.8                | D   | -24.7                           | -10.4                        | -10.8                                 |
| Goodnaw Street                           | 26.3                | C   | 5.6                             | -6.7                         | -6.6                                  |
| Grant Avenue                             | 52.8                | D   | -16.8                           | -16.3                        | -16.4                                 |
| Whitman Plaza - Fulmer Street            | 20.1                | C   | -5.2                            | 1.0                          | 0.6                                   |
| Lott Street                              | 25.1                | C   | -6.8                            | 3.8                          | 3.7                                   |
| Conwell Avenue                           | 11.8                | B   | -1.0                            | 6.7                          | 6.8                                   |
| Red Lion Road                            | 41.4                | D   | -4.2                            | -9.5                         | -8.9                                  |
| Haldeman Avenue                          | 19.2                | B   | -1.0                            | -2.7                         | -2.9                                  |
| Plaza Drive                              | 32.3                | C   | -11.8                           | -4.5                         | -4.4                                  |

XXX Delay increased by more than 10 seconds compared to Existing Conditions

XXX Delay decreased by more than 10 seconds compared to Existing Conditions

**Table 7:** PM Intersection Delay/ LOS Comparison of 2015 Existing, 2025 No Build and 2025 Build

| Intersection at Roosevelt Boulevard and | Existing Conditions |     | Delay Δ (secs)<br>2025 No Build | Delay Δ (secs)<br>2025 Build | Delay Δ (secs)<br>2025 Build<br>S-BAT |
|---|---------------------|-----|---------------------------------|------------------------------|---------------------------------------|
|   | Delay (secs)        | LOS |                                 |                              |                                       |
| Nabisco Drive                           | 9.0                 | A   | 5.0                             | -3.0                         | -2.9                                  |
| Comly Road                              | 34.0                | C   | 6.4                             | -4.3                         | -5.1                                  |
| Byberry Road                            | 15.9                | B   | 5.4                             | 7.3                          | 7.2                                   |
| Hornig Road - Crown Way                 | 11.0                | B   | 12.7                            | 7.7                          | 7.8                                   |
| Southampton Road                        | 40.9                | D   | 17.8                            | 6.1                          | 5.5                                   |
| Northgate Drive                         | 16.7                | B   | 0.7                             | -4.7                         | -4.7                                  |
| Old Lincoln Highway                     | 29.2                | C   | 5.3                             | -4.6                         | -4.6                                  |

**XXX** Delay increased by more than 10 seconds compared to Existing Conditions

**XXX** Delay decreased by more than 10 seconds compared to Existing Conditions

### Queue Length – Automobile

Locations where queues increased or decreased by more than 20 percent and 50 feet in Build scenarios compared to Existing Conditions are discussed in this section. To review the more detailed length information, refer to **Appendix C**. The proposed 120-second cycle length played a role in increased queue lengths. Longer cycle length resulted in more vehicles per cycle waiting to be served. Additionally, BAT lanes and bump-outs resulted in longer queues in the outer lanes or indirectly result in longer queues in the inner lanes due to the shift in the volume.

- At majority of the locations with queue length increases BAT lanes and bump-outs resulted in longer queues in the outer lanes or indirectly in the inner lanes due to the shift in the volume. These locations included 7<sup>th</sup> Street, Rising Sun Avenue, C Street, Bridge Street, and Oxford Circle.
- The locations where Boulevard queues increased in the southbound direction was due to northbound left-turn hold phases, BAT lanes, or bump-outs. These locations included 9<sup>th</sup> Street, 3<sup>rd</sup>/4<sup>th</sup> Street, F Street and Large Street. At C Street, the increased northbound delay can be attributed to a hold phase for southbound left-turning vehicles.
- To compensate for the reduced mainline capacity due to BAT lane and bump-outs, green time was shifted from side street to the Boulevard wherever feasible. This resulted in longer queues at C Street, F Street, Langdon Street, and Comly Road.
- The side street off-set lefts at Harbison Avenue and Red Lion Road resulted in longer queues.
- Queues reduced significantly at Langdon Street and Summerdale Avenue on the majority of the approaches as mainline left-turns were converted to Michigan left-turns. This improvement provided more green time to the Boulevard eliminating a major bottleneck in the PM peak hour.
- Improved lane configuration and restriping on Oxford Circle reduced queuing at Cheltenham Avenue on the east side of the circle.
- Increased storage space for the northbound left at Bustleton Avenue and separated dual southbound left-turn at Harbison Avenue reduced queues on these movements, improving the flow and safety of through traffic as well.
- Between Tyson Avenue and Red Lion Road, multiple queues were reduced due to the conversion of mainline left-turns to lagging phases, resulting in 3-4 seconds of additional green-

- time per cycle. Queues and delays increased on eastbound approach of Red Lion Road as the offset left configuration reduced the eastbound through lanes from 2 to 1.
- Queues from the southbound left-turn at Southampton Avenue degraded in No Build due to additional demand. This condition improved in Build scenarios through signal timing but needs further improvements.
  - At Old Lincoln Highway, eastbound right turn queues increased, as the movement was signalized in Build conditions compared to yield condition in Existing and No Build Conditions. Southbound left-turn queues increased, as the phase was converted to lagging. Both of these changes were proposed to improve pedestrian safety.

### **Analysis Limitations - Crossover Operations**

Under the Build scenarios, none of the crossovers were observed to cause queues or congestion with the exception of one crossover in the AM peak hour in the southbound direction. These observations are not indicative of potential crossover failures along the Boulevard due to the BAT lanes.

The Existing Conditions VISSIM model did not replicate the field conditions at the crossovers as VISSIM DTA determined paths based on lowest costs between an OD pair. In the models, vehicles chose the inner versus outer lane when they entered the network from the side street, as opposed to the observed field behavior of using the crossover to switch between inner and outer lanes in response to immediately visible or perceived congestion. As a result, there was a significant mismatch between the cumulative field crossover volume (of 6,300 vph) and simulation model crossover volume (of 2,500 vph on an average) in the PM peak hour.

While a DTA model will ensure the total vehicles originating at any location and destined to any location match the field data, the path between the OD is overridden by shortest and least expensive paths as calculated by the model. Due to these reasons, a DTA model cannot be used to assess the impacts on crossovers due to changes in traffic demand, OD, roadway capacity, or lane use changes.

### **Findings**

Both in AM and PM, Build and S-BAT Build scenario has better multi-modal operations compared to Existing and No Build Conditions.

Both in AM and PM, travel time for regular buses degraded in 2025 where they are restricted to using the BAT lane. This restriction did not allow them to overtake automobiles at high right-turn intersections. The restriction also resulted in more bus bunching.

While the pedestrian and bus operations for Build and S-BAT scenario were similar, there were some areas where Build operated better. Compared to the Build scenario, S-BAT had:

- Longer queues along the S-Curve in both peak hours
- Lower network-wide automobile throughput in the PM peak
- Longer automobile travel time along the Boulevard in the southbound direction in the AM peak hour due to reduced roadway capacity in the southern section
- Fewer intersections performing better compared to 2015 Existing Conditions in the AM peak

Issues that were not resolved by the Build improvements include:

- Increased demand and the resultant delays on southbound left-turn at Bristol Street and Broad Street in the AM peak hour. The proposed solution was to remove parking along W Bristol Road and change the lane configuration to include two left-turn lanes. Visual observation shows improvement in operations.
- Elimination of the westbound left connection from Adams Avenue to Whitaker Avenue resulted in other failures downstream. Other volume sources should be considered.
- Increased demand between the side street on either side of Oxford Circle. The single receiving lane on Oxford Avenue (on the east side of the Circle) resulted in gridlock conditions in the Circle in the AM peak hour.
- Increased demand and the resultant delays at the intersection of Southampton Road in both AM and PM peak hours. The proposed solution was to change the lane configuration on southbound inner lanes to have dual left-turn lanes and two through lanes. This would require two receiving lanes on the westbound approach and the right of way is available. Visual observation shows improvement in operations.
- Operational analysis of the crossovers and their interaction with other proposed improvements in both AM and PM peak hours.



# Roosevelt Boulevard

**Section 2 – Appendix 6**

**2025 S-Curve VISSIM  
Static Model Summary**

**June 2019**

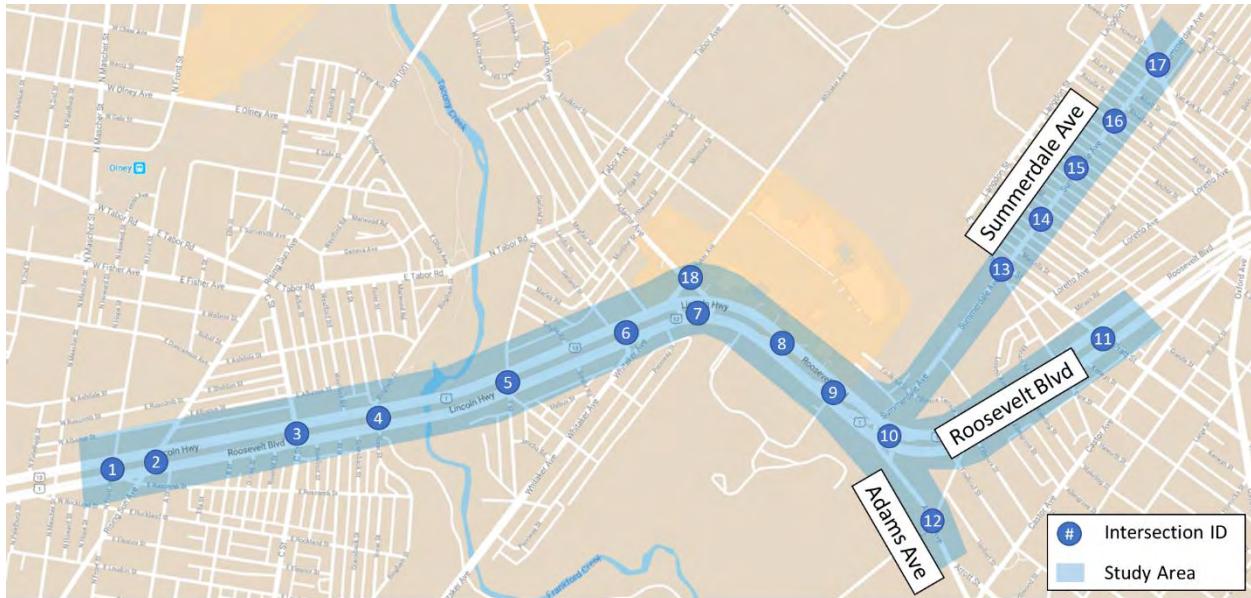
## **BACKGROUND**

The impacts of the proposed 2025 improvements were analyzed with VISSIM Dynamic Traffic Assignment (DTA) model. The DTA model is useful for assessing the impacts of BAT lanes, bump-outs and other improvements. However, as DTA shifts vehicles to the fastest path, it has limited ability to replicate the worst-case scenario where vehicles stay on their planned routes resulting in a more congested condition.

As a result, a VISSIM Static Traffic Assignment (STA) was used to better understand the impact of 2025 improvements on the S-curve. This is the most congested segment along the Roosevelt Boulevard. The proposed improvements were further refined based on the findings of this analysis.

This memo summarizes the assumptions and multi-modal operational analysis results in 2025 No Build and Build conditions for the S-curve VISSIM models with static routes. The study area includes 11 intersections on the S-curve between Front Street and Pratt Street. To capture queues in the peak hour, the study area extended to include 6 intersections along Summerdale Avenue/Adams Avenue and an additional intersection at Whitaker Avenue/Adams Avenue. The study area developed in consultation with the City is illustrated in **Figure 1** with individual intersections listed below:

1. Roosevelt Boulevard and Front Street
2. Roosevelt Boulevard and Rising Sun Avenue
3. Roosevelt Boulevard and C Street
4. Roosevelt Boulevard and D Street
5. Roosevelt Boulevard and F Street
6. Roosevelt Boulevard and Garland Street
7. Roosevelt Boulevard and Adams Avenue
8. Roosevelt Boulevard and Tower Boulevard
9. Roosevelt Boulevard and Langdon Street
10. Roosevelt Boulevard and Summerdale Avenue
11. Roosevelt Boulevard and Pratt Street
12. Adams Avenue and Ramona Avenue
13. Summerdale Avenue and Pratt Street
14. Summerdale Avenue and Bridge Street
15. Summerdale Avenue and Sanger Street
16. Summerdale Avenue and Cheltenham Avenue
17. Summerdale Avenue and Oxford Avenue
18. Whitaker Avenue and Adams Avenue



**Figure 1:** Study Area

## ANALYSIS METHODOLOGY AND ASSUMPTIONS

### Analysis Years and Scenarios

The S-curve static VISSIM models were developed using corridor-wide VISSIM models (with DTA from Screen 6) as a starting point. For each peak period, five 2025 Scenarios were evaluated.

- Scenario 1 (referred to as '*No-Build*') : 2025 No Build with existing conditions signal timing and geometry.
- Scenario 2 (referred to as '*Build-Screen 6*') : 2025 Build with improvements from Screen 6 including:
  - Michigan U-turn at B Street and Allengrove Street with a new pedestrian crossing.
  - BAT lanes in both directions (with breaks for longer turn lanes at Adams Avenue in north and southbound directions).
  - 120-second cycle for the entire corridor.
  - Straighten/Pullback crosswalk to accommodate two-stage pedestrian crossing.
  - Prohibit left turns at Summerdale Avenue in both directions and southbound left turn at Langdon Street.
  - Two new pedestrian crossings at Tower Boulevard and Langdon Street, and crosswalk realignment at Summerdale Avenue.
  - Road diet in westbound direction on Summerdale/ Adams Avenue at the Boulevard and tightening the northbound right-turn radius.
- Scenario 3 (referred to as '*Build-Reduced BAT*') : *Build-Screen 6* without BAT lanes in the southbound direction between Whitaker Avenue and Allengrove Street.
- Scenario 4 (referred to as '*Build-Access Change*') : *Build-Reduced BAT* with the northbound left-turn from Langdon Street eliminated, and vehicles moved to Tower Boulevard. *Build-Access Change* was the best with least impact on traffic.

- Scenario 5 (referred to as '*Build Preferred*'): *Build-Reduced BAT* with the following changes as illustrated in **Figure 2** and **Figure 3**.
  - At Summerdale/Adams Avenue intersection, keep the northbound dual left-turn lanes and change the left-turn phase from leading to lagging. This was done because there was minimal cost-benefit associated with a Michigan U-turn at Allengrove Street.
  - Remove Michigan U-turn and pedestrian crosswalk at Allengrove Street.
  - At Langdon Street, change northbound left-turn phase from pretimed to actuated without minimum recall. This improvement will allow emergency vehicles to access the fire station on Langdon Street while improving the efficiency of the intersection.
  - Road diet in eastbound direction on Summerdale/ Adams Avenue at the Boulevard.



**Figure 2:** Proposed Improvements in *Build Preferred* - Front Street to D Street



Direct Bus Stop  
 T T T

Extend Northbound Left Turn Vehicle Storage on Blvd. D

Signalized Michigan Left Turn P P P D D

Business Access and Transit (BAT) Lane T T D

New Crosswalks P

Upgrade Existing Bike Facility P C D

Realign Crosswalks P P

New Bike Facility P C D

120 Second Cycle Length P P

Right In, Right Out P P

Remove Left Turn P P P D D

Lane Diet and Tighten Radius P D

Realign Roadway D D

Restripe Cross Road D

Bumpout/Curb Extension P

Add Green Space P

Move Crossover D

Realign Access P

#### INTERIM IMPROVEMENTS

INCREASE SAFETY

REDUCE TRAVEL TIME

REDUCE WAIT TIME

REDUCE CONFUSION

MANAGE ACCESS

#### BOULEVARD USERS

P - PEDESTRIANS

C - CYCLISTS

T - TRANSIT RIDERS

D - DRIVERS

**Figure 3:** Proposed Improvements in *Build Preferred* - F Street to Pratt Street

## Data Collection

In addition to the data from Screen 6 VISSIM models, the following data was collected to validate the models for *No-Build* conditions:

- Intersection turning movement counts (TMC) at 6 intersections along Summerdale Avenue/Adams Avenue on a typical weekday;
- Intersection TMC from 2018 at Roosevelt Boulevard and Summerdale Avenue;
- Travel time runs along the S-curve and Summerdale Avenue during the peak periods; and
- Field observations during peak periods to assess queues, traffic patterns, driving behavior, and travel speeds.

The City provided traffic controller dial sheets for the signals on Summerdale Avenue/Adams Avenue. The data was converted to VISSIM RBC signal data and applied in 2025 Scenarios. In *No-Build* conditions, the signal offset at the intersection of Roosevelt Boulevard and Summerdale Avenue was adjusted to match the recorded offsets in the field.

## Peak Hour Volume Development

2025 corridor-wide Origin-Destination (O-D) matrices from the network wide VISSIM models for both AM and PM peak hours were truncated to the study area limits shown in **Figure 1**. The following assumptions were made when converting the 2025 corridor-wide DTA VISSIM model to a 2025 S-curve static route model.

- Left turning vehicles would use inner lanes;
- Right turning vehicles would use outer lanes; and
- Entry and exit volumes on inner and outer lanes will have the same proportional splits as 2015 counts.

For crossovers and additional intersections on Summerdale Avenue, the following assumptions were made in both *No-Build* and Build conditions:

- Turning movement volumes at the 6 intersections on Summerdale Avenue were developed from 2019 counts and grown by 5 percent to reflect 2025 volume;
- Crossover volumes were developed from 2015 counts and grown by 10 percent; and
- When balancing the crossover volumes, it was assumed that crossovers were utilized by vehicles entering the study area via Boulevard or from limited-access side streets.

Forecasted peak hour volumes for *No-Build* conditions are shown in **Figure 4** and **Figure 5**, while *Build Preferred* volumes are shown in **Figure 6** and **Figure 7**.

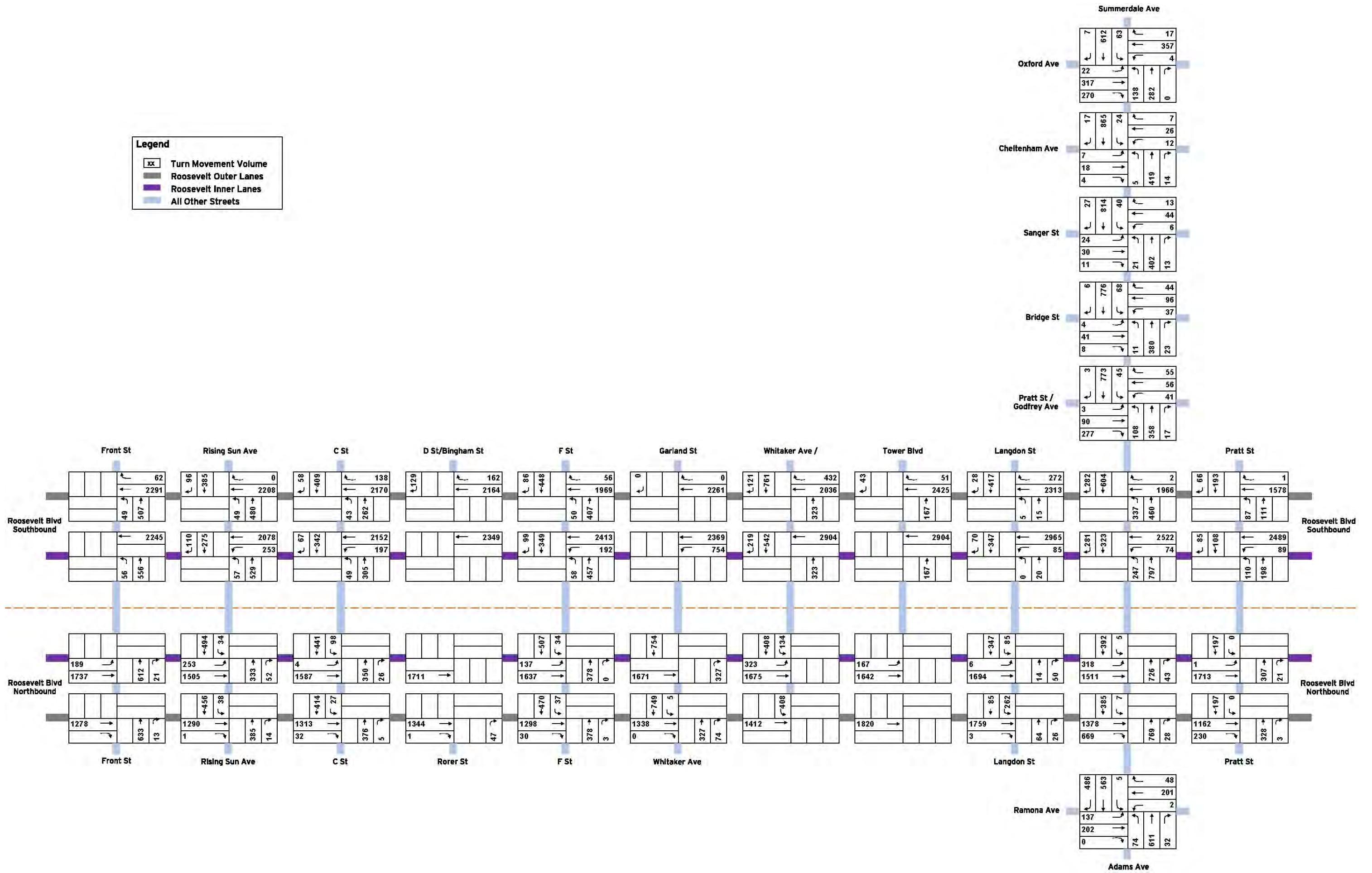


Figure 4: No Build AM Peak Hour Volume

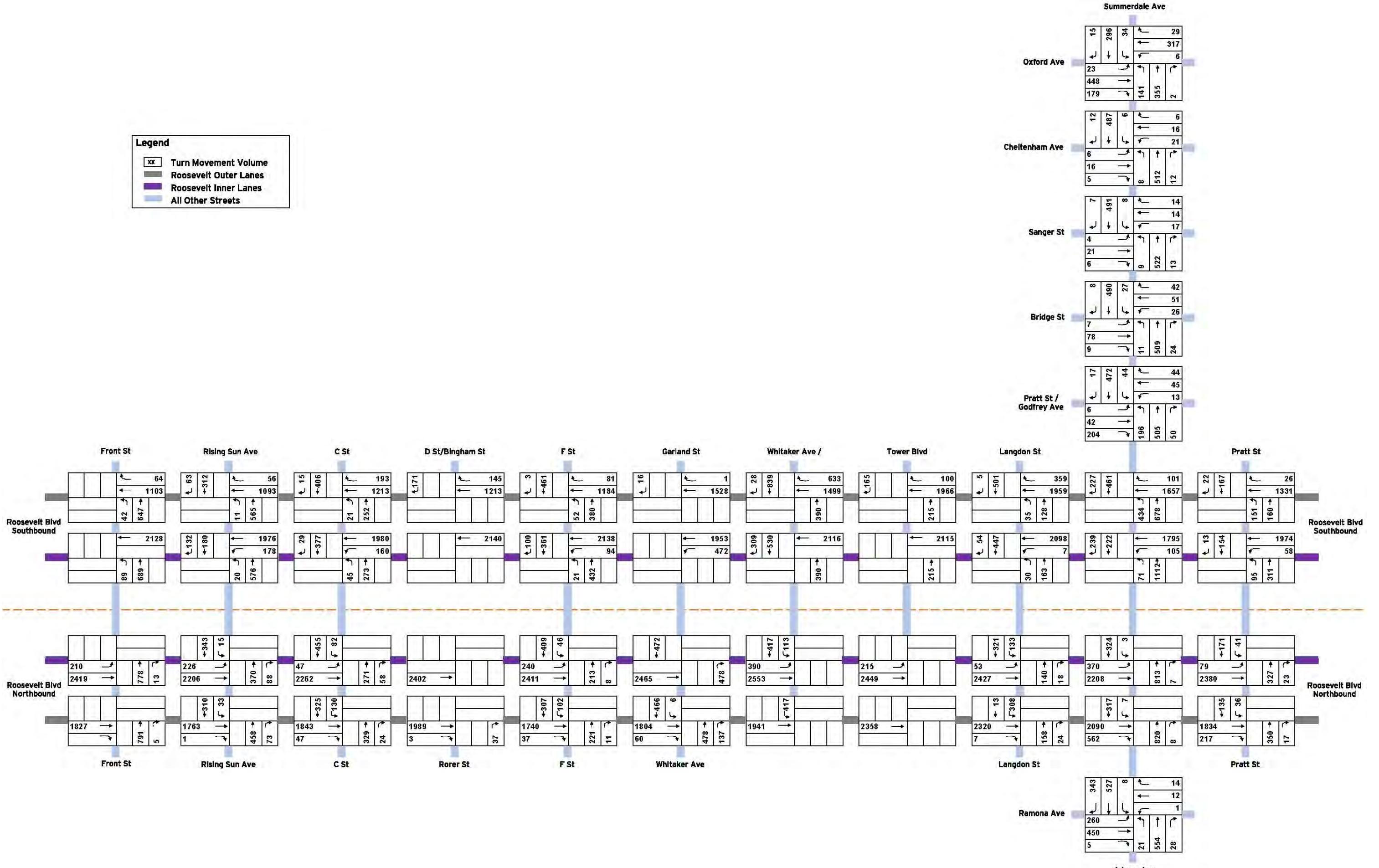
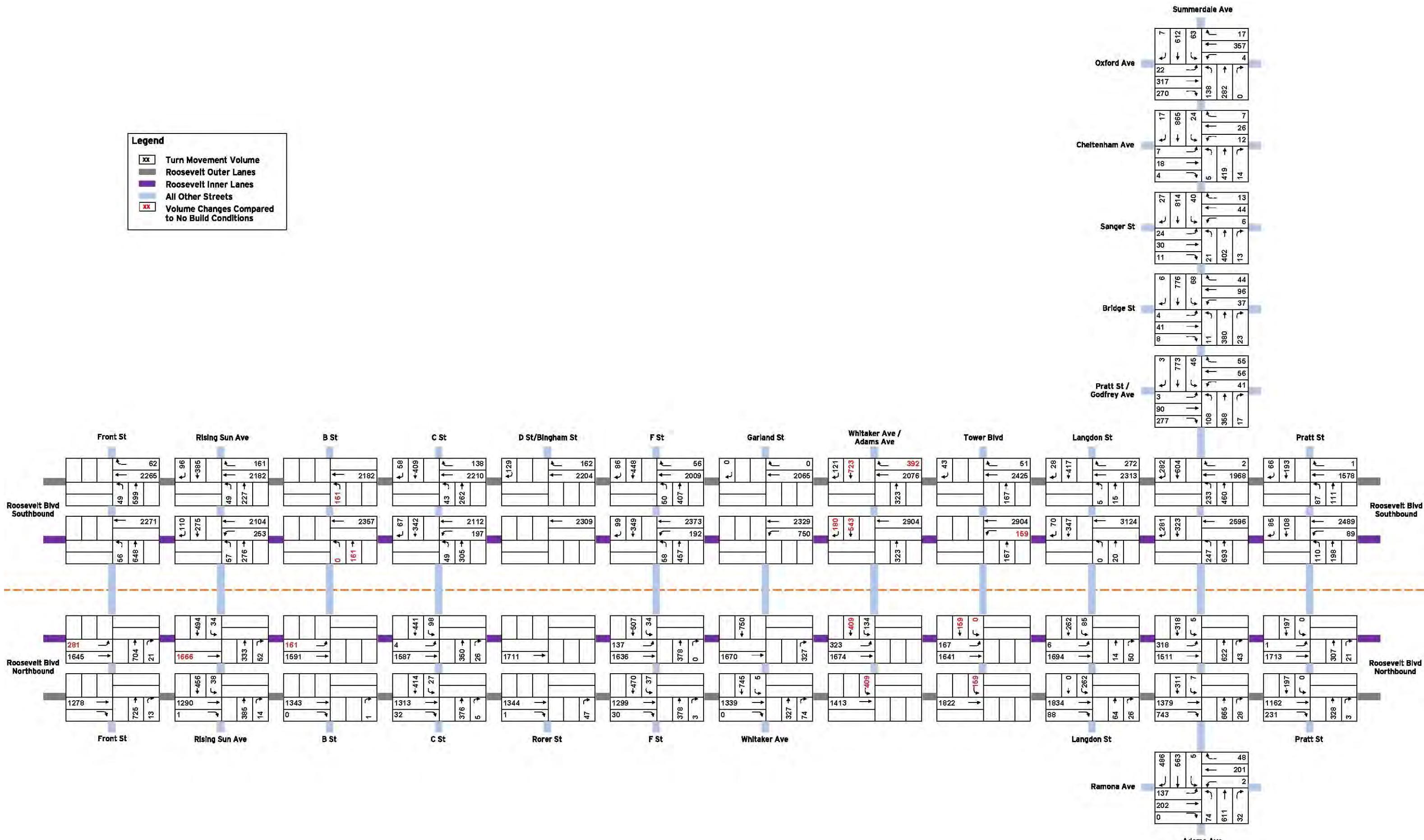


Figure 5: No Build PM Peak Hour Volume



**Figure 6:** 2025 Build Preferred AM Peak Hour Volume

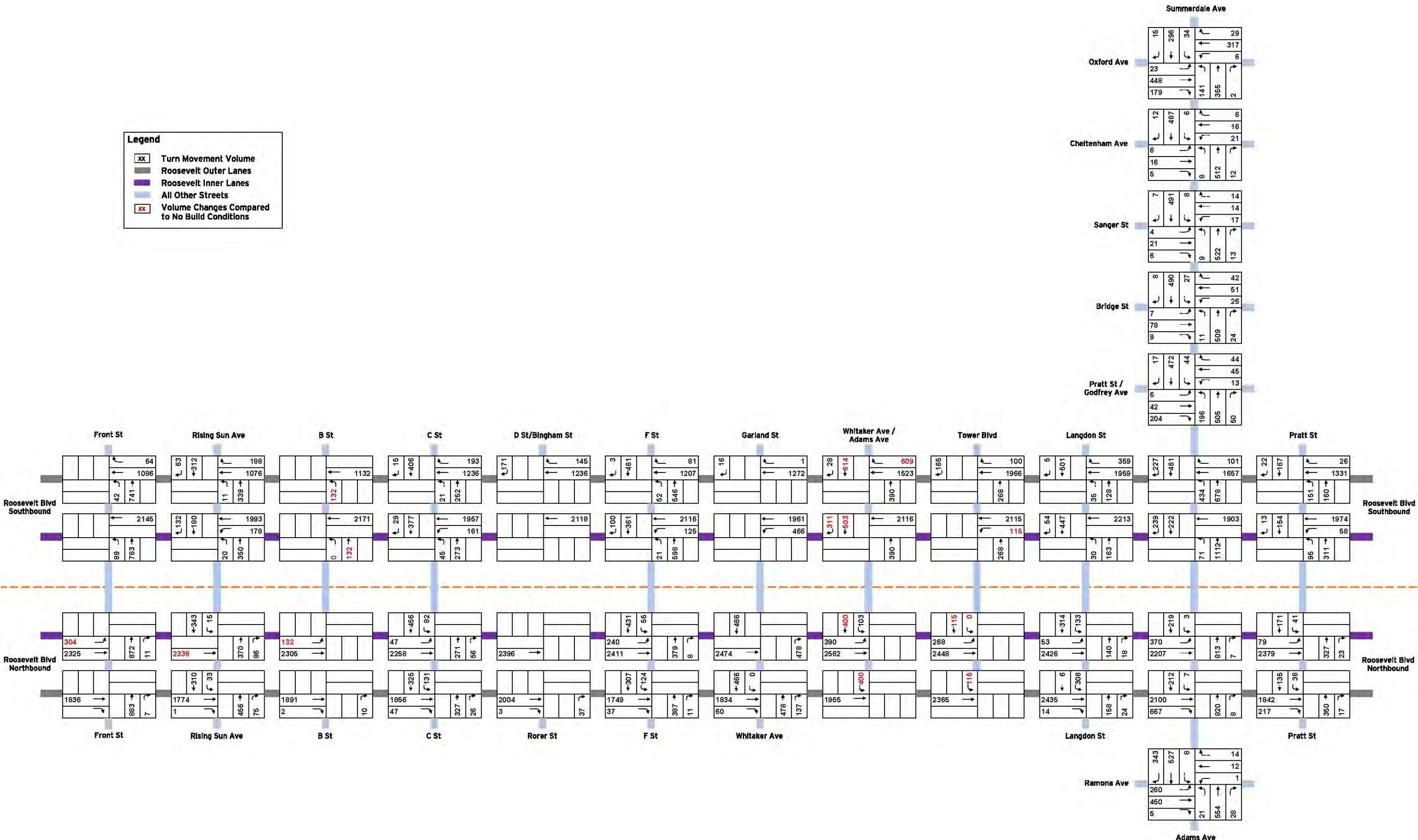


Figure 7: 2025 Build Preferred PM Peak Hour Volume

## VISSIM Model Parameters

The S-curve Static VISSIM model parameters are presented in **Table 1**.

**Table 1:** VISSIM Simulation Parameters

| Parameter                     | Assumptions  |
|-------------------------------|--|
| VISSIM Version                | Version 9.00 - 11  |
| Total Simulation Time         | 1 hours 30 minutes (5400 seconds)  |
| Seeding Time                  | 30 minutes (1800 seconds)  |
| Recorded Simulation Time      | 1 hour (3600 seconds)  |
| Entry Volumes (Inputs)        | DVRPC input from VISUM and 2019 counts   |
| Heavy Vehicle Percentages     | Mainline and major side streets: Traffic counts collected in February 2019<br>Minor side streets: DVRPC input from VISUM |
| Arrival Distribution          | Used “Exact Volume”  |
| Link Length                   | No limitation on link length; links should be continuous through areas with consistent lane configuration                |
| Link Speed                    | +/- 14 mph from the posted speed limit per field observations  |
| Car Following Model           | Wiedemann 99 and 74 car following models for freeway and arterials, respectively   |
| Performance Measure Intervals | One-hour increments  |
| Simulation Resolution         | 10-time steps/sec  |
| Initial Random Seed           | 43 (same as DTA models)  |
| Number of Simulation Runs     | 10 (same as DTA models)  |
| Origin-Destination            | DVRPC input from VISUM   |
| Vehicle Types                 | Car, Bus, and Heavy Gross Vehicles (trucks)  |
| Driver Behavior               | No changes from DTA models   |
| Lane Change Distance          | No changes from DTA models unless warranted by an improvement  |

## Model Validation Process

In addition to throughput thresholds, queues and travel time information from 2019 field observations were used to validate the *No-Build* models. **Figure 8** compares average and maximum queue lengths in *No-Build* VISSIM models with field observations for the AM and PM peak periods, respectively. The results show that the *No-Build* VISSIM models were representative of the field conditions as the queues from field observations fell within the average and maximum queue lengths from VISSIM.

The resulting travel times in the peak directions were also found to be similar to observed travel times (see **Figure 9** and **Figure 10**).

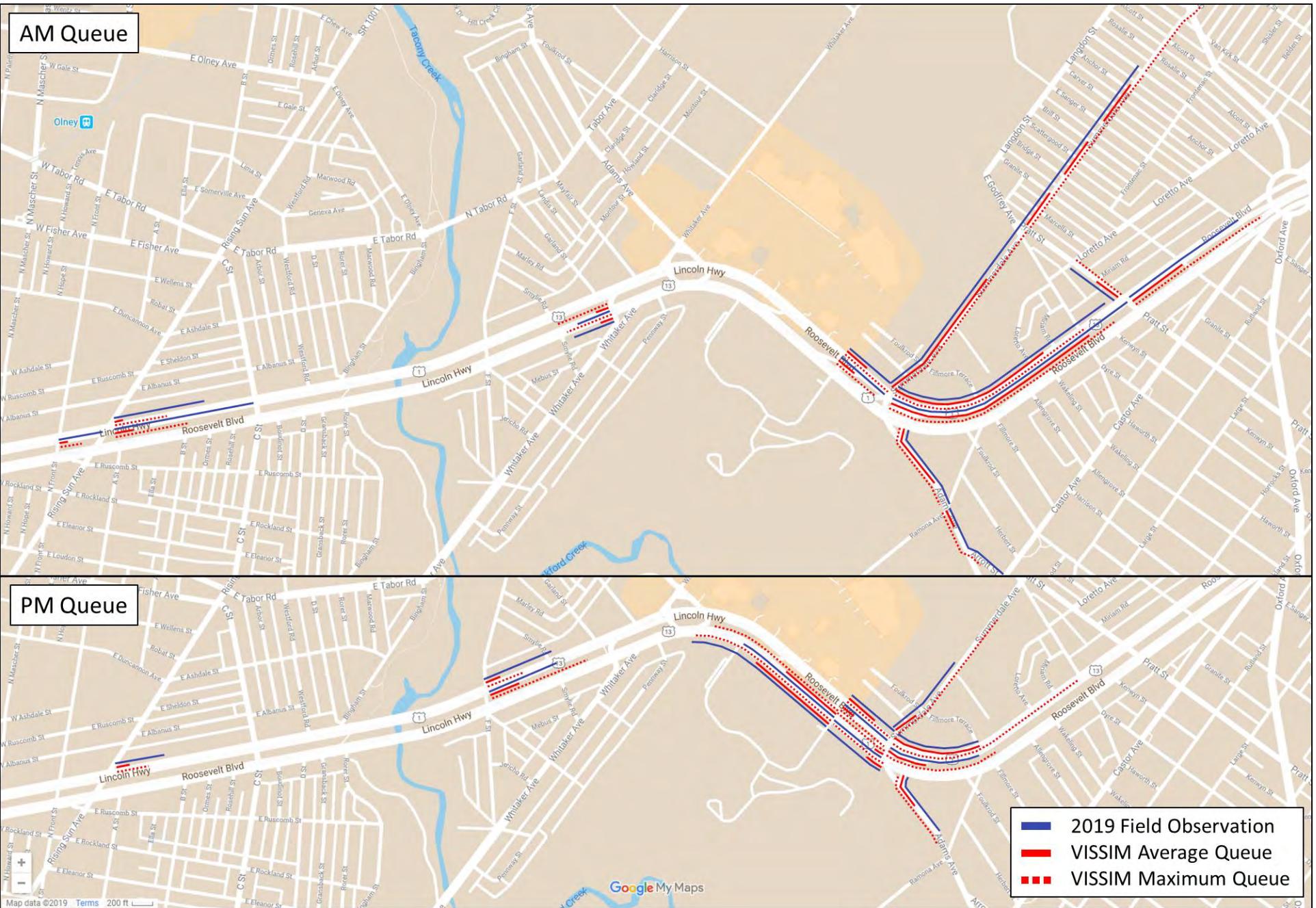


Figure 8: S-curve Queue Comparison

## TRAFFIC OPERATION ANALYSIS

The 2025 S-curve model results for the following Measures of Effectiveness (MOEs) are presented in this section.

- Pedestrian Crossing Time
- Average Travel Time per User – Automobile
- Average Travel Time per User – Buses
- LOS and Delay – Automobile and Buses
- Queue Length – Automobile and Buses
- Crossover Operations

### Pedestrian Crossing Time

**Error! Reference source not found.** summarizes the number of cycles required by a pedestrian to safely cross the S-curve as well as the locations where crossing distance was reduced in the Build Scenarios. An “X” signifies that the pedestrians have insufficient time to safely cross the Boulevard in one signal cycle to the center median.

Under *No-Build* conditions, most of the intersections did not provide adequate time for pedestrians to safely traverse the northern and southern (east/west) crosswalks between the pedestrian signal heads. As part of the 2025 Build conditions (*Build-Screen 6*, *Build-Reduced BAT*, *Build-Access Change*, and *Build Preferred*), signals were retimed to provide more time for pedestrians and crossings were shortened to reduce the time required to cross the Boulevard.

**Table 2:** Number of Signal Cycles to Cross Roosevelt Boulevard

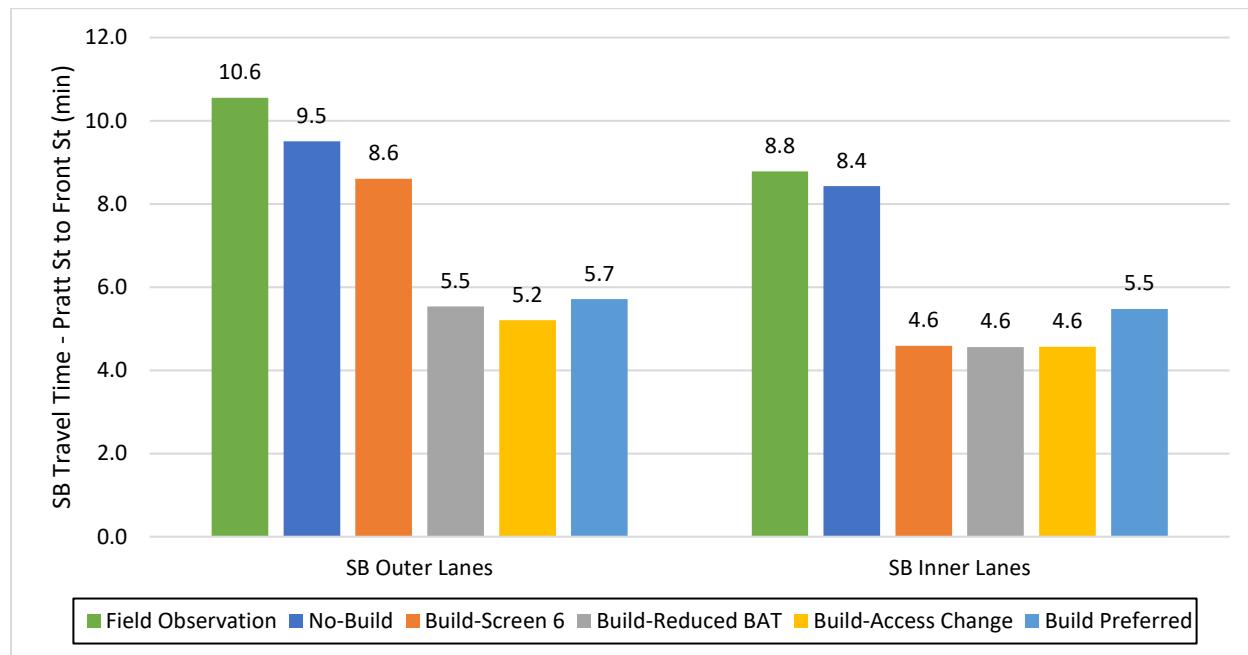
| Intersection at Roosevelt Boulevard and       | 2025 No Build | Build Scenarios 2 - 4 | Build Preferred |
|---|---------------|-----------------------|-----------------|
| Front Street*                                 | 4             | 2                     | 2               |
| Rising Sun Avenue*                            | 4             | 2                     | 2               |
| B Street Michigan U-Turn                      | n/a           | 2                     | 2               |
| C Street                                      | 4             | 2                     | 2               |
| D Street / Bingham Street Pedestrian Crossing | 2             | 2                     | 2               |
| F Street                                      | 4             | 2                     | 2               |
| Whitaker Avenue (South) - Garland Street      | 4             | 2                     | 2               |
| Whitaker Avenue (North) - Adams Avenue        | 4             | 2                     | 2               |
| Tower Blvd                                    | n/a           | 2                     | 2               |
| Langdon Street                                | 4             | 2                     | 2               |
| Summerdale Avenue - Adams Avenue              | 4             | 2                     | 2               |
| Allengrove Street Michigan U-turn             | n/a           | 2                     | 2               |
| Pratt Street                                  | 4             | 2                     | 2               |

\* Crossing length reduced in Build

## Average Travel Time per User – Automobile

### AM Peak

Travel time for passenger cars and trucks was calculated along Roosevelt Boulevard between Front Street and Pratt Street (2.0 miles). **Figure 9** presents the AM travel times in the peak (or southbound) direction. Travel times for all four Build Scenarios were lower than *No-Build* conditions.



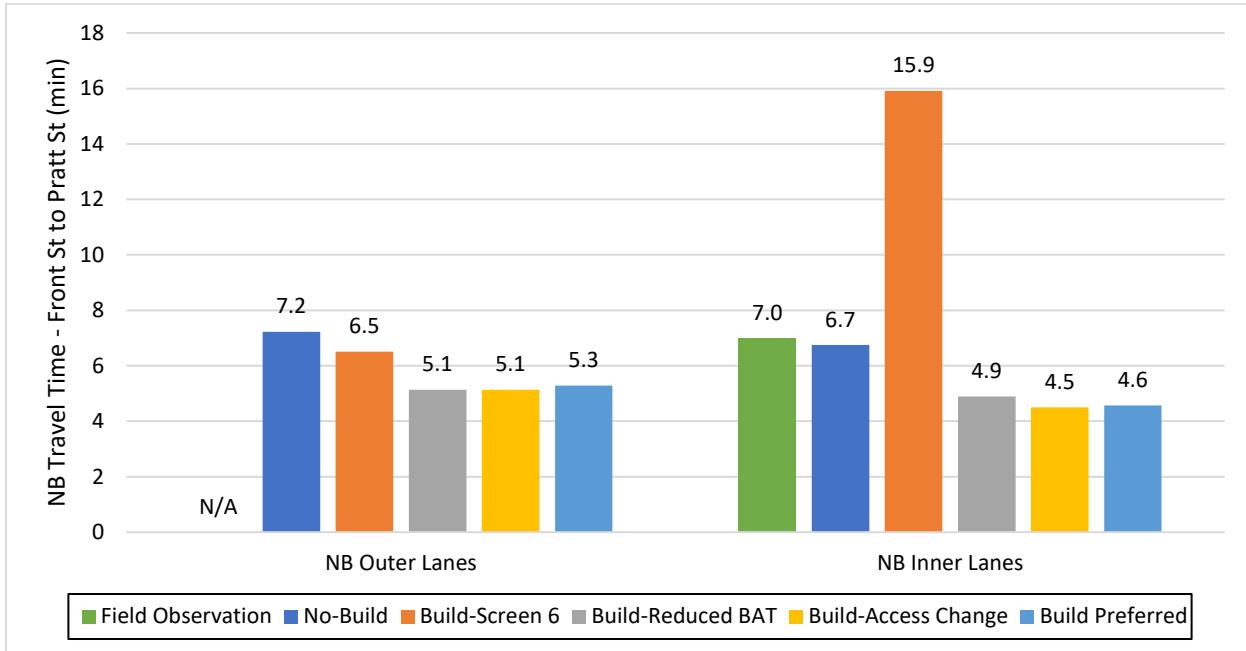
**Figure 9:** Southbound Automobile Travel Time – AM Peak

- The travel times for *Build-Screen 6* were lower for both the inner and outer lanes compared to *No-Build*. However, the Michigan U-turn at Allengrove Street was failing. With the BAT lane, heavy southbound right turns at Langdon Street (272 vph) and Summerdale Avenue (320 vph) resulted in last minute lane changes impacting the outer lane capacity. This resulted in heavily congested conditions and impacted both buses and cars.
- As shown in **Figure 9**, *Build-Reduced BAT* without BAT lanes in the southbound direction between Whitaker Avenue and Allengrove Street performed better than *Build-Screen 6*.
- *Build-Access Change* had the lowest travel times due to higher green time in for the southbound vehicles.
- Travel times for *Build Preferred* in both inner and outer lanes were slightly higher than *Build-Access Change* due to the reinstatement of northbound left-turns at Summerdale Avenue and Langdon Street.

### PM Peak

**Figure 10** presents the PM travel times in the peak (northbound) direction. Travel times for all Build Scenarios were lower than the *No-Build* conditions, except for *Build-Screen 6* in the inner lanes.

- Similar to the AM peak, the Michigan U-turn at Allengrove Street failed blocking the northbound inner lanes. This resulted in network-wide gridlock and travel time in the inner lanes was more twice as much in *Build-Screen 6* compared to *No-Build*.
- Compared to *Build-Access Change*, travel times for *Build Preferred* were slightly higher for both the inner and outer lanes due to the reinstatement of the northbound left-turns at Summerdale Avenue and Langdon Street.



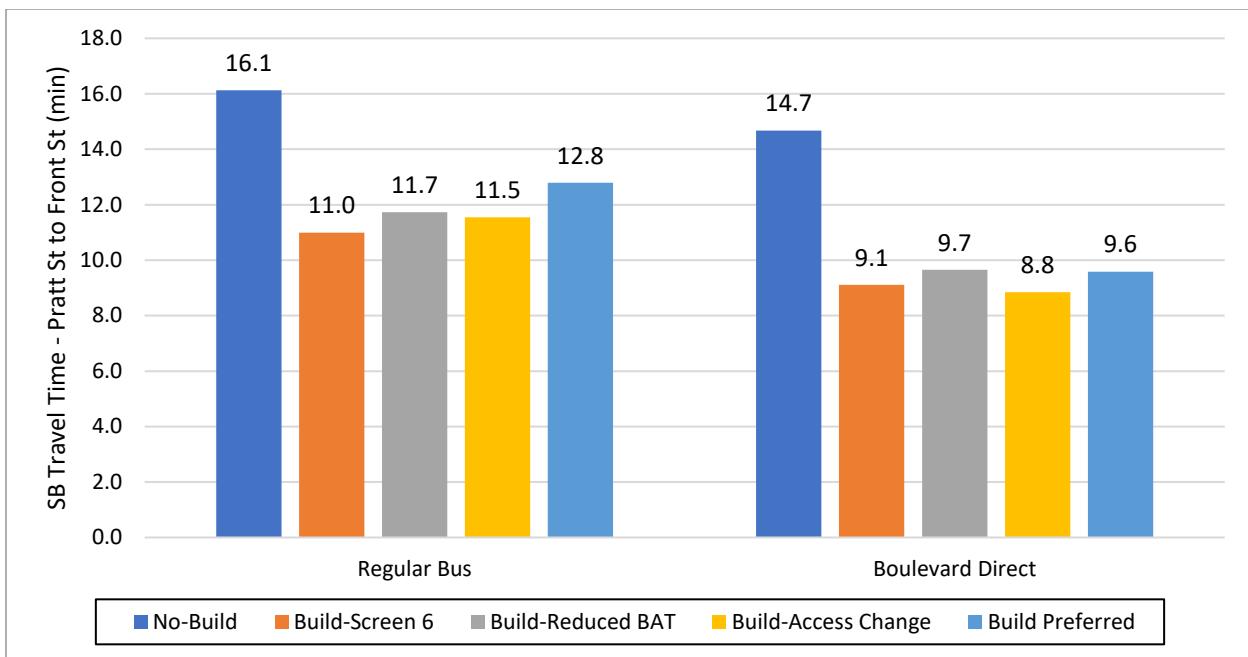
**Figure 10:** Northbound Automobile Travel Time – PM Peak

#### Average Travel Time per User – Buses

##### AM Peak

The bus travel times in the peak (or southbound) direction in various scenarios are illustrated in **Figure 11** to understand the impact of the proposed changes in the S-curve on bus operations. Generally, Boulevard Direct services had lower travel times compared to regular buses. This can be attributed to the fact that these buses made fewer stops along their route and could overtake regular buses; whereas the regular buses were restricted to the BAT lanes.

- Bus travel times for all four Build Scenarios were lower than *No-Build* conditions.
- Bus travel times for *Build Preferred* were higher than *Build-Access Change* similar to automobile travel time.

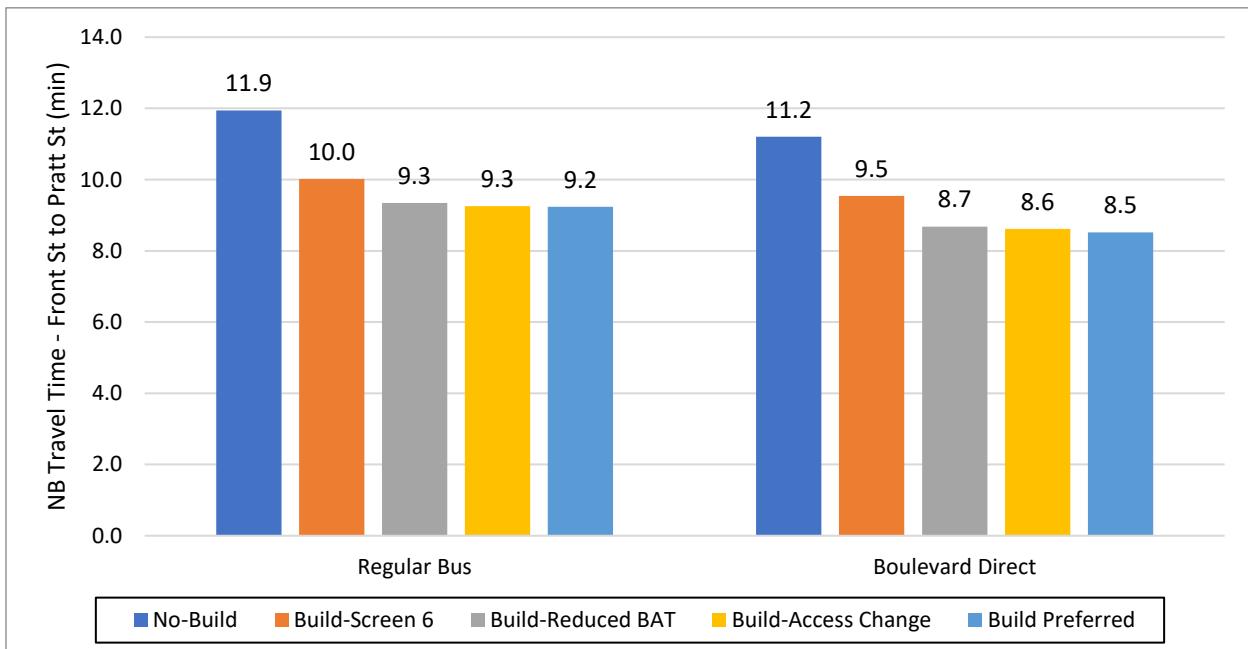


**Figure 11:** Southbound Bus Travel Time – AM Peak

#### PM Peak

**Figure 12** presents the PM bus travel times in the northbound direction. In all the Scenarios, Boulevard Direct operated with lower travel times than regular buses.

- The Build Scenarios had lower travel times compared to *No-Build* conditions.
- Bus travel times for *Build Preferred* were similar to *Build-Access Change* as no changes were made in the northbound direction between *Build-Access Change* and *Build Preferred*.



**Figure 12:** Northbound Bus Travel Time – PM Peak

## LOS and Delay – Automobile and Buses

### AM Peak

**Table 2** presents the overall intersection LOS and delay along the S-curve for all the Scenarios. For more detailed metrics such as movement delay and queues at all the intersections, refer to **Appendix A**.

- In *No-Build* conditions, the intersection at Summerdale Avenue operated at LOS F with queues extending to Pratt Street.
- The intersection at Summerdale Avenue improved to LOS D in *Build-Screen 6* with geometric and signal timing changes. However, the intersection at Pratt Street operated at LOS F due to the Michigan U-turn at Allengrove Street and BAT lanes in the southbound direction.
- In *Build-Reduced BAT*, *Build-Access Change*, and *Build Preferred* Scenarios, operations at intersections along the S-curve were similar to each other and the congestion between Summerdale Avenue and Pratt Street was significantly reduced.
- Reinstating northbound left-turns at Langdon Street and Summerdale Avenue increased delay in *Build Preferred* as compared to *Build-Reduced BAT* and *Build-Access Change*. However, the LOS was acceptable.

**Table 2:** AM Intersection Delay/LOS Comparison

| Intersection of Roosevelt Blvd and | <i>No-Build</i> |     | <i>Build-Screen 6</i> |     | <i>Build-Reduced BAT</i> |     | <i>Build-Access Change</i> |     | <i>Build Preferred</i> |     |
|------------------------------------|-----------------|-----|-----------------------|-----|--------------------------|-----|----------------------------|-----|------------------------|-----|
|                                    | Delay           | LOS | Delay                 | LOS | Delay                    | LOS | Delay                      | LOS | Delay                  | LOS |
| Front St                           | 14.9            | B   | 14.8                  | B   | 14.2                     | B   | 14.1                       | B   | 14.1                   | B   |
| Rising Sun Ave                     | 34.7            | C   | 15.4                  | B   | 15.2                     | B   | 14.9                       | B   | 15.1                   | B   |
| B St U-turn                        | -               | -   | 4.1                   | A   | 4.2                      | A   | 4.1                        | A   | 4.1                    | A   |
| C St                               | 25.7            | C   | 34.1                  | C   | 33.1                     | C   | 33.0                       | C   | 33.1                   | C   |
| Rorer St - D St                    | 7.3             | A   | 4.9                   | A   | 5.6                      | A   | 5.6                        | A   | 5.7                    | A   |
| F St                               | 24.2            | C   | 25.8                  | C   | 30.1                     | C   | 31.2                       | C   | 29.7                   | C   |
| Garland St                         | 14.9            | B   | 14.1                  | B   | 13.5                     | B   | 13.5                       | B   | 13.8                   | B   |
| Adams Ave                          | 13.0            | B   | 17.7                  | B   | 18.2                     | B   | 18.4                       | B   | 23.5                   | C   |
| Tower Blvd                         | 5.8             | A   | 5.7                   | A   | 5.7                      | A   | 5.6                        | A   | 6.3                    | A   |
| Langdon St                         | 42.7            | D   | 15.3                  | B   | 15.7                     | B   | 14.8                       | B   | 17.0                   | B   |
| Summerdale Ave                     | 149.7           | F   | 44.7                  | D   | 35.4                     | D   | 35.6                       | D   | 50.7                   | D   |
| Allengrove St U-turn               | -               | -   | 40.2                  | D   | 8.4                      | A   | 6.7                        | A   | -                      | -   |
| Pratt St                           | 37.8            | D   | 109.9                 | F   | 27.0                     | C   | 26.5                       | C   | 24.7                   | C   |

### PM Peak

**Table 3** presents the intersection LOS and delay along the S-curve for *No-Build* and Build Scenarios. For more detailed metrics such as movement delay and queues at all the intersections, refer to **Appendix A**.

- In *No-Build* conditions, all intersections along the S-curve operated at LOS D or better, except for the intersections at Langdon Street and Summerdale Avenue.
- The S-curve gridlocked in *Build-Screen 6* due to the Michigan U-turn at Allengrove Street and BAT lanes in the southbound direction.
- In *Build-Reduced BAT*, *Build-Access Change*, and *Build Preferred* Scenarios, the intersections along the S-curve operated much better than *Build-Screen 6* except the intersection at Summerdale Avenue remained at LOS E.
- *Build-Access Change* and *Build Preferred* produced similar results except for the intersection at Summerdale Avenue. The downgrade in *Build Preferred* at this intersection is caused by reinstating the northbound left-turn phase at Summerdale Avenue.

**Table 3:** PM Intersection Delay/LOS Comparison

| Intersection of Roosevelt Blvd and | <i>No-Build</i> |     | <i>Build-Screen 6</i> |     | <i>Build-Reduced BAT</i> |     | <i>Build-Access Change</i> |     | <i>Build Preferred</i> |     |
|------------------------------------|-----------------|-----|-----------------------|-----|--------------------------|-----|----------------------------|-----|------------------------|-----|
|                                    | Delay           | LOS | Delay                 | LOS | Delay                    | LOS | Delay                      | LOS | Delay                  | LOS |
| Front St                           | 37.4            | D   | 46.0                  | D   | 17.3                     | B   | 17.2                       | B   | 17.2                   | B   |
| Rising Sun Ave                     | 21.3            | C   | 38.4                  | D   | 23.1                     | C   | 23.1                       | C   | 23.1                   | C   |
| B St U-turn                        | -               | -   | 19.8                  | B   | 5.1                      | A   | 5.0                        | A   | 5.8                    | A   |
| C St                               | 23.6            | C   | 57.7                  | E   | 24.9                     | C   | 24.9                       | C   | 25.8                   | C   |
| Rorer St - D St                    | 6.5             | A   | 40.5                  | D   | 5.0                      | A   | 5.0                        | A   | 5.0                    | A   |
| F St                               | 23.1            | C   | 107.3                 | F   | 32.4                     | C   | 33.6                       | C   | 33.3                   | C   |
| Garland St                         | 38.7            | D   | 79.3                  | E   | 10.1                     | B   | 9.2                        | A   | 9.2                    | A   |
| Adams Ave                          | 19.8            | B   | 57.9                  | E   | 17.6                     | B   | 14.9                       | B   | 16.3                   | B   |
| Tower Blvd                         | 10.2            | B   | 58.6                  | E   | 13.2                     | B   | 13.9                       | B   | 13.9                   | B   |
| Langdon St                         | 65.3            | E   | 70.8                  | E   | 24.7                     | C   | 15.0                       | B   | 19.1                   | B   |
| Summerdale Ave                     | 61.4            | E   | 130.8                 | F   | 56.7                     | E   | 28.8                       | C   | 35.4                   | D   |
| Allengrove St U-turn               | -               | -   | 67.6                  | E   | 22.3                     | C   | 9.3                        | A   | -                      | -   |
| Pratt S                            | 29.2            | C   | 77.0                  | E   | 23.5                     | C   | 19.4                       | B   | 19.6                   | B   |

## Queue Length – Automobile and Buses

Three (3) intersections where drivers experienced severe congestion (based on field observations) are discussed in this section.

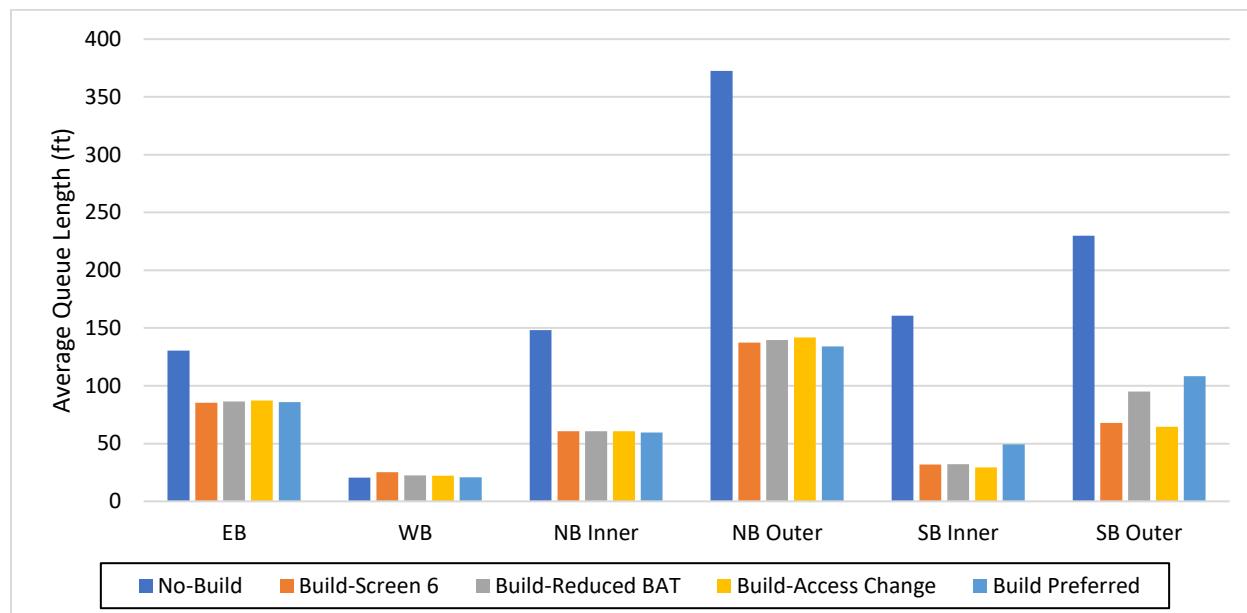
- Roosevelt Boulevard and Langdon Street
- Roosevelt Boulevard and Summerdale Avenue
- Roosevelt Boulevard and Pratt Street

To review more detailed queuing information for the entire study area, refer to **Appendices A** and **B**.

### AM Peak

At the intersection of Langdon Street, queues on northbound, southbound and eastbound approaches decreased in all four Build Scenarios compared to *No-Build* conditions (see **Figure 13**).

- In *No-Build* conditions, northbound and southbound queues along the Boulevard periodically reached upstream intersections, especially in the outer lanes.
- The decreased southbound queue lengths in *Build-Screen 6* can be attributed to the failure of the Michigan U-turn at Allengrove Street which metered the traffic.
- In *Build-Reduced BAT*, *Build-Access Change*, and *Build Preferred*, Langdon Street intersection was not congested, and the queues generally cleared each cycle.

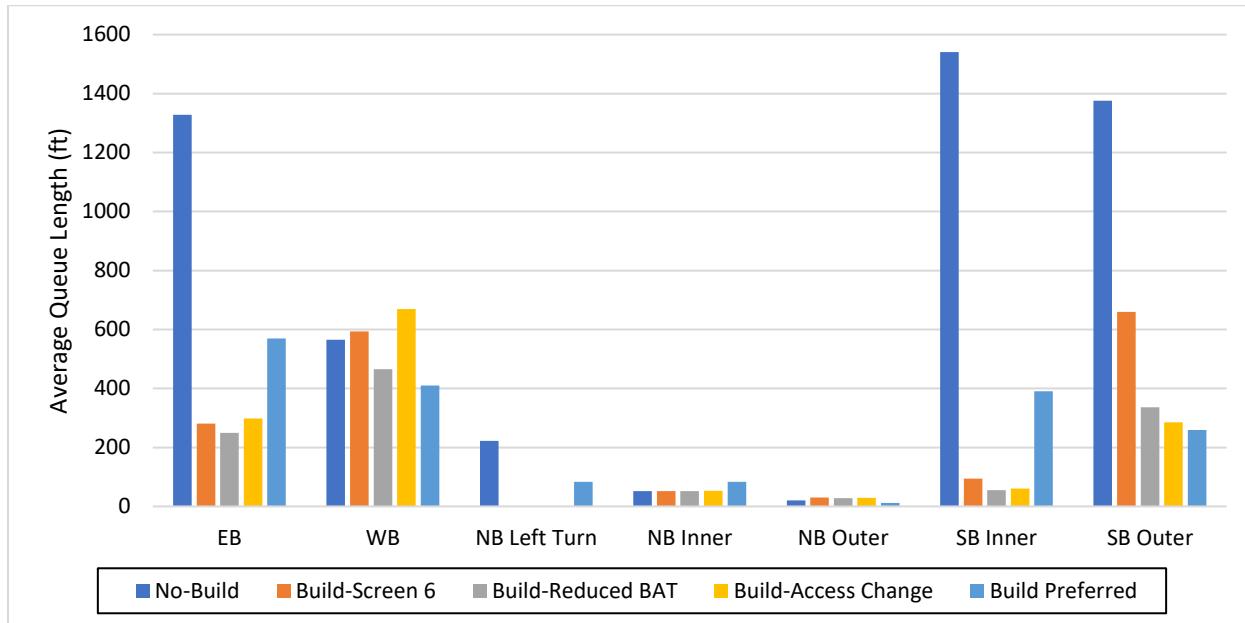


**Figure 13:** AM Queue Length Comparison at Roosevelt Boulevard and Langdon Street

**Figure 14** presents the average queue length for each approach at Summerdale Avenue intersection in all the Scenarios.

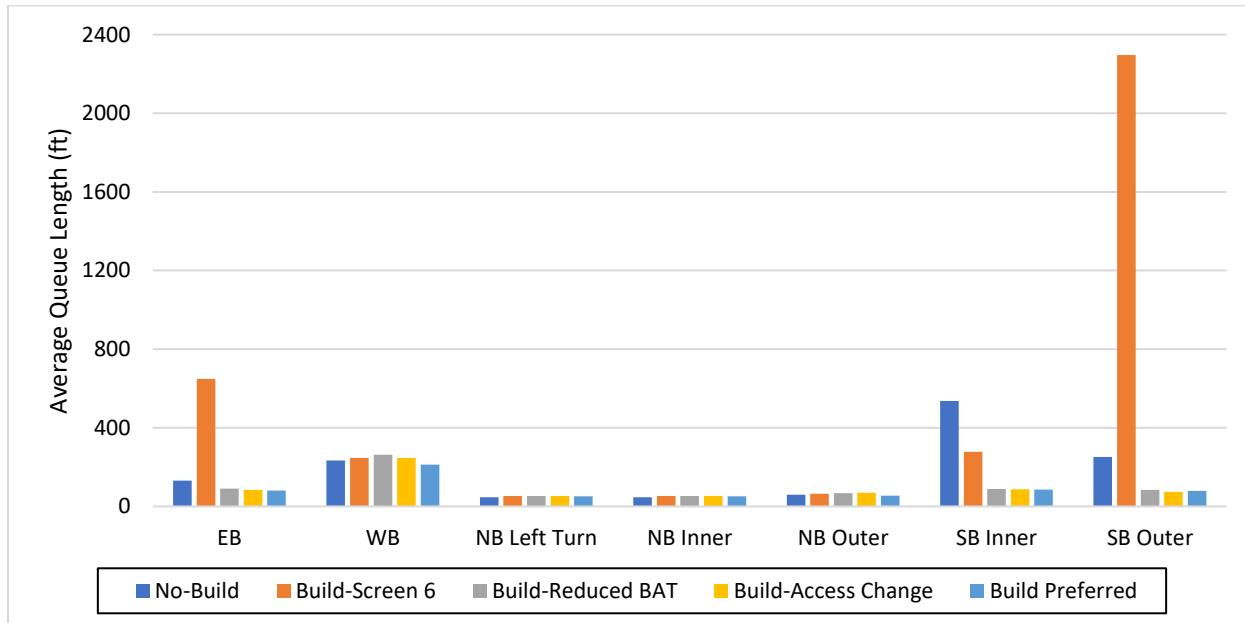
- In *No-Build*, eastbound, westbound, and southbound approaches operated at LOS F and queues did not clear each cycle.
- Queues reduced in *Build-Screen 6* on most if the approaches due to the failure of Michigan U-turn at Allengrove Street which metered the traffic.

- Improved southbound operation in *Build-Access Change* Scenario allowed more southbound vehicles to be served resulting in longer westbound queues.
- In *Build Preferred*, queues from eastbound and southbound inner lanes were increased compared to other Build Scenarios due to the reinstatement of northbound left-turns at Langdon Street and Summerdale Avenue.



**Figure 14:** AM Queue Length Comparison at Roosevelt Boulevard and Summerdale Avenue

**Figure 15** shows the average queue length for each approach at Pratt Street intersection in all the Scenarios. Queues from the peak (southbound) direction reduced in Build Scenarios except for *Build-Screen 6*. The failure of the Michigan U-turn at Allengrove Street contributed to longer southbound queues in *Build-Screen 6*.

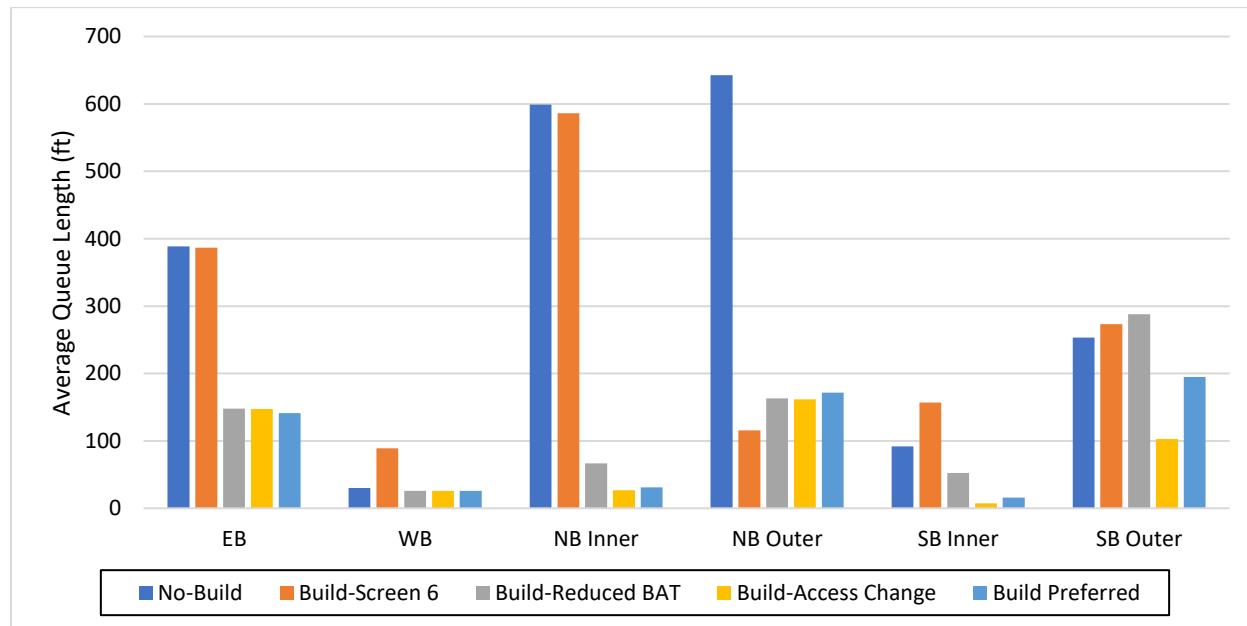


**Figure 15:** AM Queue Length Comparison at Roosevelt Boulevard and Pratt Street

## PM Peak

At the intersection of Langdon Street, queues in the peak (northbound) direction were the longest in *No-Build* compared to Build Scenarios (see **Figure 16**).

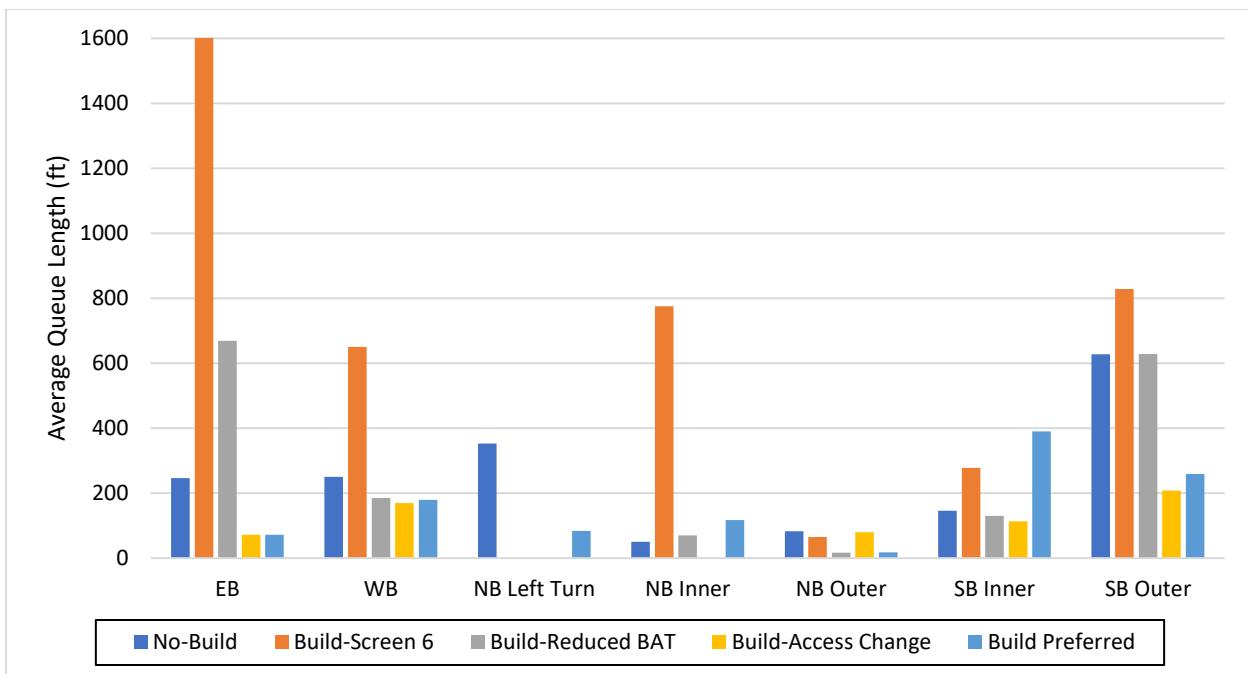
- In *Build-Screen 6*, northbound queues periodically reached upstream intersection due to the failure of the Michigan U-turn at Allengrove Street, especially in the inner lanes.
- In *Build-Reduced BAT*, *Build-Access Change*, and *Build Preferred*, queues on northbound and eastbound approaches decreased compared to *No-Build* and *Build-Screen 6*. This can be attributed to optimized signal timings in Build conditions.



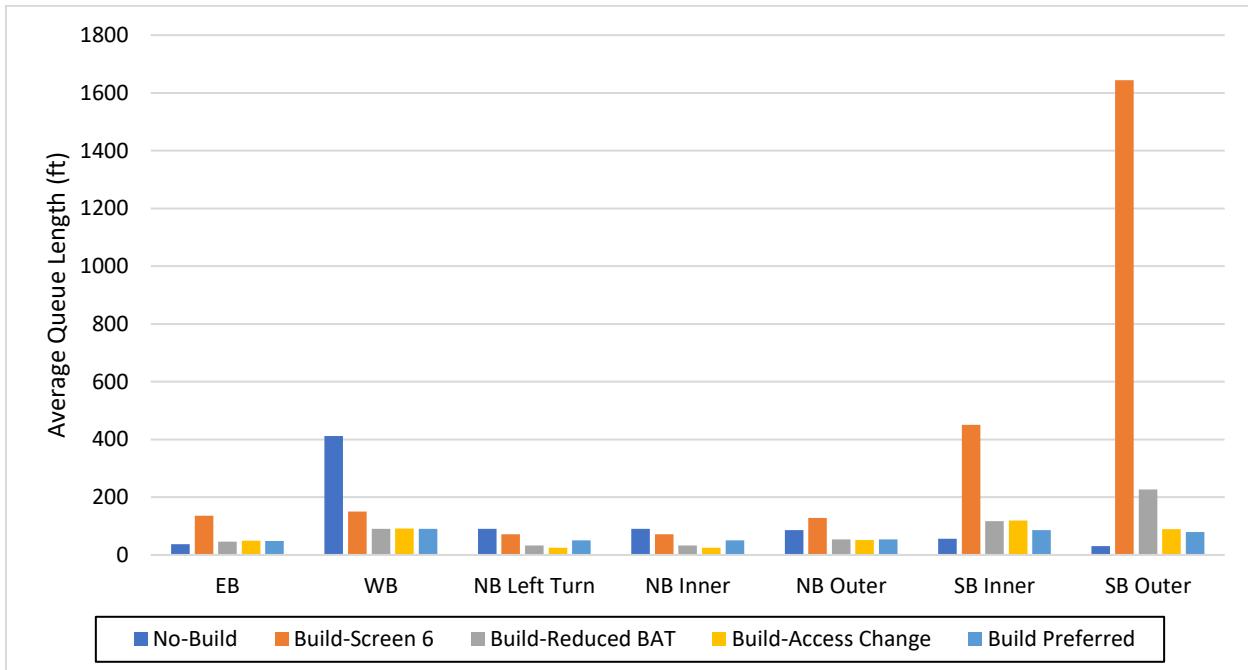
**Figure 16:** PM Queue Length Comparison at Roosevelt Boulevard and Langdon Street

**Figure 17** and **Figure 18** present the average queue lengths at Summerdale Avenue and Pratt Street, respectively.

- Similar to the AM peak, the failure of Michigan U-turn at Allengrove Street resulted in network-wide gridlock and excessive queues in *Build-Screen 6*.
- Congestion reduced in the Build Scenarios at both the intersections resulting in lower queue lengths compared to *No-Build* Conditions.



**Figure 17:** PM Queue Length Comparison at Roosevelt Boulevard and Summerdale Avenue



**Figure 18:** PM Queue Length Comparison at Roosevelt Boulevard and Pratt Street

## **CONCLUSION**

Four Build Scenarios were compared to the No-Build Scenario using static VISSIM modeling approach. The findings are summarized below.

The *Build-Screen 6* is fatally-flawed and was eliminated for further consideration. Specifically, the Michigan U-turn at Allengrove Street and BAT lanes between Allengrove Street and Whitaker Avenue in the southbound direction in *Build-Screen 6* failed. This proposed improvement worked in DTA models due to a shift of 200-350 vehicles from southbound outer to inner lanes. The three remaining static models -- *Build-Reduced BAT*, *Build-Access Change*, and *Build Preferred* -- did not have this issue.

The *Build-Access Change* Scenario had the most favorable traffic operations. However, this Scenario restricts access to the emergency vehicle on Langdon Street. Thus, the *Build Preferred* is recommended. This alternative is a compromise between bus and automobile operations, vehicular and pedestrian access, and bike lane improvements while keeping safety as a priority.

## **NEXT STEPS**

- Conduct an additional study to develop parallel roadway network along the S-curve. This would reduce the demand for turning movements along the Boulevard and thus allowing BAT lanes to continue through the S-curve.
- Validate and develop mitigation measures for crossovers before implementing BAT lanes along in the southern section of the Boulevard including the S-curve.
- Perform an O-D study to evaluate the impact to Tabor Avenue and identify mitigation measures before eliminating the intersection at Whitaker Avenue and Adams Avenue. Eliminating this intersection is safer and operationally for the Boulevard as well as the roadway network in the immediate vicinity of the Boulevard (as demonstrated by this analysis). However, congestion might be shifted to Tabor Avenue.

## **APPENDIX A: OPERATIONAL ANALYSIS METRICS**

### AM Peak - 2025 No-Build

| Intersection                                       | Control    | Movement              | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|--|------------|-----------------------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Front St                          | Signalized | WBL1                  | 56                        | 57                              | -1       | -1%        | 2.2                      | A                       | 651                              | 12.8                                | B                       | 14.9                                    | B                           | 99                  | 183             |                 |  |  |
|  |            | WBL2                  | 49                        | 49                              | 0        | -1%        | 3.5                      | A                       |                                  |                                     |                         |   |                             | 99                  | 183             |                 |  |  |
|  |            | WBT                   | 507                       | 511                             | -4       | -1%        | 13.5                     | B                       |                                  |                                     |                         |   |                             | 99                  | 183             |                 |  |  |
|  |            | WBR1                  | 21                        | 22                              | -1       | -3%        | 34.2                     | C                       |                                  |                                     |                         |   |                             | 50                  | 272             |                 |  |  |
|  |            | WBR2                  | 13                        | 13                              | 1        | 4%         | 34.0                     | C                       |                                  |                                     |                         |   |                             | 50                  | 272             |                 |  |  |
|  |            | NBL1                  | 189                       | 192                             | -3       | -1%        | 145.4                    | F                       |                                  |                                     |                         |   |                             | 380                 | 169             | 473             |  |  |
|  |            | NBIT                  | 1737                      | 1732                            | 5        | 0%         | 22.3                     | C                       |                                  |                                     |                         |   |                             | 475                 | 169             | 473             |  |  |
|  |            | NBOT                  | 1278                      | 1276                            | 2        | 0%         | 15.5                     | B                       |                                  |                                     |                         |   |                             | 475                 | 47              | 247             |  |  |
|  |            | SBIT                  | 2245                      | 2120                            | 125      | 6%         | 4.2                      | A                       |                                  |                                     |                         |   |                             | 315                 | 17              | 121             |  |  |
|  |            | SBOT                  | 2291                      | 2192                            | 99       | 4%         | 8.1                      | A                       |                                  |                                     |                         |   |                             | 350                 | 56              | 389             |  |  |
|  |            | SBOR                  | 62                        | 64                              | -2       | -4%        | 23.0                     | C                       |                                  |                                     |                         |   |                             | 350                 | 56              | 389             |  |  |
| Roosevelt Blvd & Rising Sun Ave                    | Signalized | EGL1 (I)              | 34                        | 30                              | 4        | 12%        | 18.0                     | B                       | 503                              | 210.8                               | F                       | 34.7                                    | C                           | 94                  | 242             |                 |  |  |
|  |            | EGL2 (O)              | 38                        | 36                              | 3        | 7%         | 23.3                     | C                       |                                  |                                     |                         |   |                             | 94                  | 242             |                 |  |  |
|  |            | EBT                   | 275                       | 246                             | 29       | 11%        | 241.0                    | F                       |                                  |                                     |                         |   |                             | 727                 | 881             |                 |  |  |
|  |            | EGR1 (I)              | 110                       | 99                              | 11       | 10%        | 237.6                    | F                       |                                  |                                     |                         |   |                             | 727                 | 881             |                 |  |  |
|  |            | EGR2 (O)              | 96                        | 85                              | 11       | 11%        | 238.1                    | F                       |                                  |                                     |                         |   |                             | 727                 | 881             |                 |  |  |
|  |            | WBL1 (I)              | 57                        | 56                              | 1        | 1%         | 18.3                     | B                       | 497                              | 76.4                                | E                       |   |                             | 60                  | 126             | 244             |  |  |
|  |            | WBL2 (O)              | 49                        | 46                              | 3        | 6%         | 23.2                     | C                       |                                  |                                     |                         |   |                             | 60                  | 126             | 244             |  |  |
|  |            | WBT                   | 333                       | 321                             | 12       | 4%         | 91.8                     | F                       |                                  |                                     |                         |   |                             | 60                  | 406             | 580             |  |  |
|  |            | WBR1 (I)              | 52                        | 51                              | 1        | 2%         | 88.8                     | F                       |                                  |                                     |                         |   |                             | 60                  | 406             | 580             |  |  |
|  |            | WBR2 (O)              | 14                        | 11                              | 3        | 20%        | 90.4                     | F                       |                                  |                                     |                         |   |                             | 60                  | 406             | 580             |  |  |
|  |            | NBL1                  | 253                       | 248                             | 5        | 2%         | 104.2                    | F                       |                                  |                                     |                         |   |                             | 205                 | 117             | 348             |  |  |
|  |            | NBIT                  | 1505                      | 1507                            | -2       | 0%         | 6.7                      | A                       |                                  |                                     |                         |   |                             | 245                 | 117             | 348             |  |  |
|  |            | NBOT                  | 1290                      | 1288                            | 2        | 0%         | 6.4                      | A                       |                                  |                                     |                         |   |                             | 230                 | 2               | 148             |  |  |
|  |            | SBIL                  | 253                       | 258                             | -5       | -2%        | 78.4                     | E                       |                                  |                                     |                         |   |                             | 250                 | 113             | 663             |  |  |
|  |            | SBIT                  | 2078                      | 1966                            | 112      | 5%         | 20.6                     | C                       |                                  |                                     |                         |   |                             | 1235                | 113             | 663             |  |  |
|  |            | SBOT                  | 2208                      | 2128                            | 80       | 4%         | 20.6                     | C                       |                                  |                                     |                         |   |                             | 1180                | 74              | 521             |  |  |
|  |            | SBOR                  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 1180                | 74              | 521             |  |  |
| Roosevelt Blvd & C Street                          | Signalized | EGL1 (I)              | 98                        | 96                              | 2        | 2%         | 13.9                     | B                       | 601                              | 92.2                                | F                       | 25.7                                    | C                           | 37                  | 213             |                 |  |  |
|  |            | EGL2 (O)              | 27                        | 28                              | -1       | -2%        | 18.2                     | B                       |                                  |                                     |                         |   |                             | 37                  | 213             |                 |  |  |
|  |            | EBT                   | 342                       | 345                             | -3       | -1%        | 113.2                    | F                       |                                  |                                     |                         |   |                             | 276                 | 616             |                 |  |  |
|  |            | EGR1 (I)              | 67                        | 64                              | 3        | 4%         | 110.7                    | F                       |                                  |                                     |                         |   |                             | 276                 | 616             |                 |  |  |
|  |            | EGR2 (O)              | 58                        | 57                              | 1        | 1%         | 111.7                    | F                       |                                  |                                     |                         |   |                             | 276                 | 616             |                 |  |  |
|  |            | WBL1 (I)              | 49                        | 48                              | 1        | 2%         | 8.9                      | A                       | 470                              | 40.1                                | D                       |   |                             | 2                   | 149             |                 |  |  |
|  |            | WBL2 (O)              | 43                        | 42                              | 1        | 3%         | 9.2                      | A                       |                                  |                                     |                         |   |                             | 2                   | 149             |                 |  |  |
|  |            | WBT                   | 350                       | 350                             | 0        | 0%         | 47.1                     | D                       |                                  |                                     |                         |   |                             | 103                 | 453             |                 |  |  |
|  |            | WBR1 (I)              | 26                        | 26                              | 0        | 1%         | 50.4                     | D                       |                                  |                                     |                         |   |                             | 103                 | 453             |                 |  |  |
|  |            | WBR2 (O)              | 5                         | 5                               | 0        | 8%         | 51.4                     | D                       |                                  |                                     |                         |   |                             | 103                 | 453             |                 |  |  |
|  |            | NBL1                  | 4                         | 4                               | 0        | -5%        | 26.2                     | C                       |                                  |                                     |                         |   |                             | 1335                | 74              | 417             |  |  |
|  |            | NBIT                  | 1597                      | 1583                            | 4        | 0%         | 25.2                     | C                       |                                  |                                     |                         |   |                             | 1335                | 74              | 417             |  |  |
|  |            | NBOT                  | 1313                      | 1308                            | 5        | 0%         | 26.6                     | C                       |                                  |                                     |                         |   |                             | 1375                | 72              | 436             |  |  |
|  |            | NBOR                  | 32                        | 32                              | 0        | 1%         | 19.0                     | B                       |                                  |                                     |                         |   |                             | 1375                | 72              | 436             |  |  |
|  |            | SBIL                  | 197                       | 181                             | 16       | 8%         | 28.2                     | C                       |                                  |                                     |                         |   |                             | 255                 | 36              | 276             |  |  |
|  |            | SBIT                  | 2152                      | 2038                            | 114      | 5%         | 7.6                      | A                       |                                  |                                     |                         |   |                             | 775                 | 36              | 276             |  |  |
|  |            | SBOT                  | 2170                      | 2101                            | 70       | 3%         | 20.5                     | C                       |                                  |                                     |                         |   |                             | 785                 | 135             | 721             |  |  |
|  |            | SBOR                  | 138                       | 138                             | 0        | 0%         | 37.8                     | D                       |                                  |                                     |                         |   |                             | 785                 | 135             | 721             |  |  |
| Roosevelt Blvd & Rorer St - D St                   | Signalized | EGR (from D St)       | 18                        | 18                              | 0        | 1%         | 4.9                      | A                       | 18                               | 4.9                                 | A                       | 7.3                                     | A                           | 0                   | 36              |                 |  |  |
|  |            | EGR (from Bingham St) | 111                       | 111                             | 0        | 0%         | 8.1                      | A                       |                                  |                                     |                         |   |                             | 3                   | 91              |                 |  |  |
|  |            | WBR                   | 47                        | 47                              | 0        | 0%         | 2.1                      | A                       |                                  |                                     |                         |   |                             | 0                   | 39              |                 |  |  |
|  |            | NBIT                  | 1711                      | 1704                            | 7        | 0%         | 2.9                      | A                       |                                  |                                     |                         |   |                             | 680                 | 3               | 77              |  |  |
|  |            | NBOT                  | 1344                      | 1344                            | 0        | 0%         | 3.5                      | A                       |                                  |                                     |                         |   |                             | 680                 | 7               | 97              |  |  |
|  |            | NBOR                  | 1                         | 1                               | 0        | 30%        | 3.3                      | A                       |                                  |                                     |                         |   |                             | 680                 | 7               | 97              |  |  |
|  |            | SBIT                  | 2349                      | 2223                            | 126      | 5%         | 7.0                      | A                       |                                  |                                     |                         |   |                             | 1150                | 19              | 202             |  |  |
|  |            | SBOT                  | 2164                      | 2089                            | 75       | 3%         | 12.6                     | B                       |                                  |                                     |                         |   |                             | 1160                | 67              | 496             |  |  |
|  |            | SBOR (to D St)        | 108                       | 97                              | 11       | 10%        | 22.0                     | C                       | 2261                             | 13.2                                | B                       |   |                             | 1160                | 67              | 496             |  |  |
|  |            | SBOR (to Bingham St)  | 54                        | 54                              | 0        | 1%         | 17.3                     | B                       |                                  |                                     |                         |   |                             | 1160                | 67              | 496             |  |  |
| Roosevelt Blvd & F Street                          | Signalized | EGL1 (I)              | 34                        | 34                              | 0        | 1%         | 19.9                     | B                       | 594                              | 81.0                                | F                       | 24.2                                    | C                           | 32                  | 179             |                 |  |  |
|  |            | EGL2 (O)              | 37                        | 35                              | 2        | 5%         | 16.1                     | B                       |                                  |                                     |                         |   |                             | 245                 | 776             |                 |  |  |
|  |            | EBT                   | 349                       | 347                             | 3        | 1%         | 88.9                     | F                       |                                  |                                     |                         |   |                             | 245                 | 776             |                 |  |  |
|  |            | EGR1 (I)              | 99                        | 96                              | 3        | 3%         | 90.1                     | F                       |                                  |                                     |                         |   |                             | 245                 | 776             |                 |  |  |
|  |            | EGR2 (O)              | 86                        | 83                              | 3        | 3%         | 89.9                     | F                       |                                  |                                     |                         |   |                             | 245                 | 776             |                 |  |  |
|  |            | WBL1 (I)              | 58                        | 55                              | 3        | 6%         | 5.6                      | A                       | 484                              | 34.7                                | C                       |   |                             | 24                  | 168             |                 |  |  |
|  |            | WBL2 (O)              | 50                        | 49                              | 1        | 2%         | 7.6                      | A                       |                                  |                                     |                         |   |                             | 24                  | 168             |                 |  |  |
|  |            | WBT                   | 407                       | 376                             | 31       | 8%         | 42.3                     | D                       |                                  |                                     |                         |   |                             | 90                  | 406             |                 |  |  |
|  |            | WBR1 (I)              | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 90                  | 406             |                 |  |  |
|  |            | WBR2 (O)              | 3                         | 4                               | -1       | -43%       | 47.1                     | D                       |                                  |                                     |                         |   |                             | 90                  | 406             |                 |  |  |
|  |            | NBL1                  | 137                       | 138                             | -1       | 0%         | 15.5                     | B                       |                                  |                                     |                         |   |                             | 170                 | 19              | 315             |  |  |
|  |            | NBIT                  | 1637                      | 1631                            | 6        | 0%         | 14.2                     | B                       |                                  |                                     |                         |   |                             | 1275                | 19              | 315             |  |  |
|  |            | NBOT                  | 1298                      | 1290                            | 9        | 1%         | 14.5                     | B                       |                                  |                                     |                         |   |                             | 1275                | 32              | 354             |  |  |
|  |            | NBOR                  | 30                        | 29                              | 1        | 4%         | 18.4                     | B                       |                                  |                                     |                         |   |                             | 1275                | 32              | 354             |  |  |
|  |            | SBIL                  | 192                       | 184                             | 8        | 4%         | 34.9                     | C                       |                                  |                                     |                         |   |                             | 1050                | 118             | 703             |  |  |
|  |            | SBIT                  | 2413                      | 2285                            | 128      | 5%         | 23.8                     | C                       |                                  |                                     |                         |   |                             | 1050                | 118             | 703             |  |  |
|  |            | SBOT                  | 1969                      | 1893                            | 76       | 4%         | 19.0                     | B                       |                                  |                                     |                         |   |                             | 1000                | 82              | 561             |  |  |
|  |            | SBOR                  | 56                        | 57                              | -1       | -1%        | 24.8                     | C                       |                                  |                                     |                         |   |                             | 1000                | 82              | 561             |  |  |
| Roosevelt Blvd & Whitaker Ave (South) - Garland St | Signalized | EGR (I)               | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 401                              | 48.0                                | D                       | 14.9                                    | B                           | 0                   | 0               |                 |  |  |
|  |            | WBR1 (I)              | 327                       | 325                             | 2        | 1%         | 49.4                     | D                       |                                  |                                     |                         |   |                             | 66                  | 270             |                 |  |  |
|  |            | WBR2 (O)              | 74                        | 76                              | -2       | -2%        | 42.3                     | D                       |                                  |                                     |                         |   |                             | 66                  | 270             |                 |  |  |
|  |            | NBIT                  | 1671                      | 1665                            | 6        | 0%         | 18.7                     | B                       | 3016                             | 17.9                                | B                       |   |                             | 1080                | 56              | 4               |  |  |

### AM Peak - 2025 No-Build

| Intersection                                      | Control    | Movement  | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |      |  |  |
|---|------------|-----------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|------|--|--|
| Roosevelt Blvd & Whitaker Ave (North) - Adams Ave | Signalized | EBL1 (I)  | 134                       | 136                             | -2       | -1%        | 4.5                      | A                       | 886                              | 12.9                                | B                       | 13.0                                    | B                           | 10                  | 57              |                 |      |  |  |
|   |            | EBL2 (O)  | 408                       | 414                             | -6       | -1%        | 4.7                      | A                       |                                  |                                     |                         |   |                             | 10                  | 57              |                 |      |  |  |
|   |            | EBr1 (I)  | 219                       | 212                             | 8        | 3%         | 28.1                     | C                       |                                  |                                     |                         |   |                             | 57                  | 256             |                 |      |  |  |
|   |            | EBr2 (O)  | 121                       | 119                             | 2        | 2%         | 24.1                     | C                       |                                  |                                     |                         |   |                             | 57                  | 256             |                 |      |  |  |
|   |            | NBIU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 73                  | 229             |                 |      |  |  |
|   |            | NBIU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 73                  | 229             |                 |      |  |  |
|   |            | NBIL      | 323                       | 317                             | 6        | 2%         | 28.5                     | C                       |                                  |                                     |                         |   |                             | 245                 | 73              |                 |      |  |  |
|   |            | NBIT      | 1675                      | 1674                            | 1        | 0%         | 9.0                      | A                       | 1991                             | 12.1                                | B                       | 13.0                                    | B                           | 265                 | 73              | 413             |      |  |  |
|   |            | NBOT      | 1412                      | 1404                            | 8        | 1%         | 7.4                      | A                       |                                  |                                     |                         |   |                             | 290                 | 38              | 207             |      |  |  |
|   |            | SBIT      | 2904                      | 2763                            | 141      | 5%         | 13.2                     | B                       |                                  |                                     |                         |   |                             | 780                 | 67              | 314             |      |  |  |
|   |            | SBOT      | 2036                      | 1948                            | 88       | 4%         | 14.3                     | B                       |                                  |                                     |                         |   |                             | 800                 | 74              | 555             |      |  |  |
|   |            | SBOR      | 432                       | 408                             | 24       | 6%         | 30.6                     | C                       |                                  |                                     |                         |   |                             | 800                 | 74              | 555             |      |  |  |
| Roosevelt BLvd & Tower Blvd                       | Signalized | EBR       | 43                        | 43                              | 0        | 0%         | 17.0                     | B                       | 43                               | 17.0                                | B                       | 5.8                                     | A                           | 1                   | 63              |                 |      |  |  |
|   |            | NBIU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 24                               | 133                                 |                         |   |                             |                     |                 |                 |      |  |  |
|   |            | NBIU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 23                               | 133                                 |                         |   |                             |                     |                 |                 |      |  |  |
|   |            | NBIL      | 167                       | 175                             | -8       | -5%        | 50.0                     | D                       | 320                              | 26                                  | 134                     |   |                             |                     |                 |                 |      |  |  |
|   |            | SBIT      | 2904                      | 2764                            | 140      | 5%         | 2.5                      | A                       | 2764                             | 2.5                                 | A                       |   |                             | 580                 | 2               | 69              |      |  |  |
|   |            | SBOT      | 2425                      | 2315                            | 110      | 5%         | 6.1                      | A                       | 580                              | 17                                  | 297                     |   |                             |                     |                 |                 |      |  |  |
|   |            | SBOR      | 51                        | 52                              | -1       | -1%        | 7.0                      | A                       | 2393                             | 6.1                                 | A                       |   |                             | 580                 | 15              | 297             |      |  |  |
| Roosevelt Blvd & Langdon St                       | Signalized | EBL1 (I)  | 85                        | 84                              | 1        | 1%         | 0.3                      | A                       | 797                              | 43.7                                | D                       | 42.7                                    | D                           | 0                   | 42              |                 |      |  |  |
|   |            | EBL2 (O)  | 262                       | 268                             | -6       | -2%        | 1.3                      | A                       |                                  |                                     |                         |   |                             | 0                   | 62              |                 |      |  |  |
|   |            | EBT       | 347                       | 351                             | -4       | -1%        | 76.4                     | E                       |                                  |                                     |                         |   |                             | 200                 | 130             | 338             |      |  |  |
|   |            | EBr1 (I)  | 70                        | 66                              | 4        | 6%         | 82.0                     | F                       |                                  |                                     |                         |   |                             | 130                 | 338             |                 |      |  |  |
|   |            | EBr2 (O)  | 28                        | 28                              | 0        | 0%         | 81.0                     | F                       |                                  |                                     |                         |   |                             | 130                 | 338             |                 |      |  |  |
|   |            | WBL1 (I)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 89                               | 44.5                                | D                       |   |                             |                     | 0               | 0               |      |  |  |
|   |            | WBL2 (O)  | 5                         | 4                               | 1        | 24%        | 9.9                      | A                       |                                  |                                     |                         |   |                             |                     | 0               | 27              |      |  |  |
|   |            | WBT       | 9                         | 8                               | 1        | 9%         | 44.3                     | D                       |                                  |                                     |                         |   |                             |                     | 21              | 122             |      |  |  |
|   |            | WBR1 (I)  | 50                        | 49                              | 1        | 2%         | 47.2                     | D                       |                                  |                                     |                         |   |                             |                     | 200             | 21              | 122  |  |  |
|   |            | WBR2 (O)  | 26                        | 28                              | -2       | -6%        | 44.5                     | D                       |                                  |                                     |                         |   |                             |                     | 21              | 122             |      |  |  |
|   |            | NBLU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 1685                             | 42.3                                | D                       |   |                             |                     | 1               | 29              |      |  |  |
|   |            | NBLU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     | 1               | 29              |      |  |  |
|   |            | NBIL      | 6                         | 5                               | 1        | 15%        | 63.3                     | E                       |                                  |                                     |                         |   |                             |                     | 190             | 1               | 29   |  |  |
|   |            | NBIT      | 1694                      | 1680                            | 14       | 1%         | 42.3                     | D                       |                                  |                                     |                         |   |                             |                     | 1525            | 148             | 603  |  |  |
|   |            | NBOT      | 1759                      | 1767                            | -8       | 0%         | 75.1                     | E                       |                                  |                                     |                         |   |                             |                     | 1525            | 372             | 973  |  |  |
|   |            | NBOR      | 3                         | 3                               | 0        | 10%        | 128.0                    | F                       | 1798                             | 75.2                                | E                       | 2904                                    | C                           | 1480                | 372             | 973             |      |  |  |
|   |            | SBLU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 22                               | 184                                 |                         |   |                             |                     |                 |                 |      |  |  |
|   |            | SBLU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 22                               | 184                                 |                         |   |                             |                     |                 |                 |      |  |  |
|   |            | SBIL      | 85                        | 89                              | -4       | -4%        | 45.5                     | D                       | 220                              | 22                                  | 184                     |   |                             |                     |                 |                 |      |  |  |
|   |            | SBIT      | 2965                      | 2816                            | 149      | 5%         | 27.1                     | C                       | 400                              | 161                                 | 437                     |   |                             |                     |                 |                 |      |  |  |
|   |            | SBOT      | 2313                      | 2218                            | 94       | 4%         | 38.0                     | D                       | 2504                             | 37.0                                | D                       | 1907                                    | F                           | 415                 | 230             | 520             |      |  |  |
|   |            | SBOR      | 272                       | 259                             | 13       | 5%         | 28.5                     | C                       | 415                              | 230                                 | 520                     |   |                             |                     |                 |                 |      |  |  |
| Roosevelt Blvd & Summerdale Ave - Adams Ave       | Signalized | EBL1 (I)  | 5                         | 4                               | 1        | 20%        | 38.1                     | D                       | 902                              | 237.8                               | F                       | 149.7                                   | F                           | 0                   | 20              |                 |      |  |  |
|   |            | EBL2 (O)  | 7                         | 6                               | 1        | 11%        | 33.8                     | C                       |                                  |                                     |                         |   |                             | 0                   | 21              |                 |      |  |  |
|   |            | EBT       | 323                       | 329                             | -6       | -2%        | 204.0                    | F                       |                                  |                                     |                         |   |                             | 1700                | 1328            | 1923            |      |  |  |
|   |            | EBr1 (I)  | 281                       | 282                             | -1       | 0%         | 233.2                    | F                       |                                  |                                     |                         |   |                             | 300                 | 1328            | 1923            |      |  |  |
|   |            | EBr2 (O)  | 282                       | 280                             | 2        | 1%         | 289.5                    | F                       |                                  |                                     |                         |   |                             | 300                 | 1328            | 1923            |      |  |  |
|   |            | WBL1 (I)  | 247                       | 235                             | 12       | 5%         | 163.3                    | F                       | 766                              | 163.5                               | F                       |   |                             |                     | 730             | 532             | 883  |  |  |
|   |            | WBL2 (O)  | 337                       | 315                             | 22       | 7%         | 163.3                    | F                       |                                  |                                     |                         |   |                             |                     | 730             | 532             | 883  |  |  |
|   |            | WBT       | 142                       | 135                             | 7        | 5%         | 174.4                    | F                       |                                  |                                     |                         |   |                             |                     | 120             | 49              | 502  |  |  |
|   |            | WBR1 (I)  | 43                        | 45                              | -2       | -5%        | 146.5                    | F                       |                                  |                                     |                         |   |                             |                     | 730             | 124             | 428  |  |  |
|   |            | WBR2 (O)  | 28                        | 27                              | 1        | 3%         | 142.1                    | F                       |                                  |                                     |                         |   |                             |                     | 730             | 565             | 917  |  |  |
|   |            | NBLU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 1804                             | 49.9                                | D                       |   |                             |                     | 222             | 457             |      |  |  |
|   |            | NBLU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     | 222             | 457             |      |  |  |
|   |            | NBIL      | 318                       | 307                             | 11       | 4%         | 212.7                    | F                       |                                  |                                     |                         |   |                             |                     | 315             | 222             | 457  |  |  |
|   |            | NBIT      | 1511                      | 1498                            | 13       | 1%         | 16.6                     | B                       |                                  |                                     |                         |   |                             |                     | 450             | 52              | 481  |  |  |
|   |            | NBOT      | 1378                      | 1387                            | -9       | -1%        | 24.2                     | C                       | 2084                             | 29.8                                | C                       |   |                             |                     | 450             | 2               | 73   |  |  |
|   |            | NBOR      | 669                       | 670                             | -1       | 0%         | 41.5                     | D                       |                                  |                                     |                         |   |                             |                     | 450             | 21              | 583  |  |  |
|   |            | SBLU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     | 33              | 138             |      |  |  |
|   |            | SBLU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     | 33              | 138             |      |  |  |
|   |            | SBIL      | 74                        | 68                              | 6        | 8%         | 283.7                    | F                       |                                  |                                     |                         |   |                             |                     | 1950            | 33              | 138  |  |  |
|   |            | SBIT      | 2522                      | 2385                            | 137      | 5%         | 206.5                    | F                       | 1907                             | 251.6                               | F                       |   |                             |                     | 1950            | 1541            | 2228 |  |  |
|   |            | SBOT      | 1966                      | 1887                            | 79       | 4%         | 251.5                    | F                       |                                  |                                     |                         |   |                             |                     | 1950            | 1375            | 1910 |  |  |
|   |            | SBOR      | 2                         | 2                               | 0        | 5%         | 311.3                    | F                       |                                  |                                     |                         |   |                             |                     | 1950            | 1375            | 1910 |  |  |
| Roosevelt Blvd & Pratt Street                     | Signalized | EBL1 (I)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 240                              | 86.4                                | F                       | 37.8                                    | D                           | 22                  | 153             |                 |      |  |  |
|   |            | EBL2 (O)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 22                  | 153             |                 |      |  |  |
|   |            | EBT       | 108                       | 98                              | 10       | 9%         | 83.4                     | F                       |                                  |                                     |                         |   |                             | 132                 | 510             |                 |      |  |  |
|   |            | EBr1 (I)  | 85                        | 79                              | 6        | 7%         | 92.0                     | F                       |                                  |                                     |                         |   |                             | 132                 | 510             |                 |      |  |  |
|   |            | EBr2 (O)  | 66                        | 59                              | 7        | 11%        | 83.9                     | F                       |                                  |                                     |                         |   |                             | 132                 | 510             |                 |      |  |  |
|   |            | WBL1 (I)  | 110                       | 112                             | -2       | -2%        | 5.1                      | A                       | 562                              | 68.6                                | E                       |   |                             |                     | 9               | 207             |      |  |  |
|   |            | WBL2 (O)  | 87                        | 88                              | -1       | -1%        | 7.5                      | A                       |                                  |                                     |                         |   |                             |                     | 234             | 616             |      |  |  |
|   |            | WBT       | 307                       | 309                             | -2       | -1%        | 106.5                    | F                       |                                  |                                     |                         |   |                             |                     | 234             | 616             |      |  |  |
|   |            | WBR1 (I)  | 21                        | 20                              | 1        | 4%         | 103.2                    | F                       |                                  |                                     |                         |   |                             |                     | 234             | 616             |      |  |  |
|   |            | WBR2 (O)  | 3                         | 3                               | 0        | -7%        | 108.4                    | F                       |                                  |                                     |                         |   |                             |                     | 140             | 46              | 406  |  |  |
|   |            | NBIL      | 1                         | 1                               | 0        | -10%       | 16.2                     | B                       | 1706                             | 22.3                                | C                       | 1590                                    | C                           | 2270                | 46              | 406             |      |  |  |
|   |            |           |                           |                                 |          |            |                          |                         |                                  |                                     |                         |   |                             |                     |                 |                 |      |  |  |

### AM Peak - 2025 No-Build

| Intersection                      | Control      | Movement          | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |
|-----------------------------------|--------------|-------------------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|
| Adams Ave & Ramona Ave            | Signalized   | EBL               | 137                       | 139                             | -2       | -2%        | 40.4                     | D                       | 336                              | 36.2                                | D                       | 43.6                                    | D                           | 48                  | 289             |                 |  |
|                                   |              | EBT               | 202                       | 197                             | 4        | 2%         | 33.3                     | C                       |                                  |                                     |                         |   |                             | 48                  | 289             |                 |  |
|                                   |              | EBR               | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 38                  | 271             |                 |  |
|                                   |              | WBL               | 2                         | 2                               | 0        | -14%       | 56.7                     | E                       |                                  |                                     |                         |   |                             | 45                  | 246             |                 |  |
|                                   |              | WBT               | 201                       | 203                             | -3       | -1%        | 56.4                     | E                       | 251                              | 55.2                                | E                       |   |                             | 45                  | 246             |                 |  |
|                                   |              | WBR               | 48                        | 46                              | 2        | 5%         | 49.5                     | D                       |                                  |                                     |                         |   |                             | 56                  | 264             |                 |  |
|                                   |              | NBL               | 74                        | 71                              | 3        | 3%         | 139.6                    | F                       |                                  |                                     |                         |   |                             | 183                 | 561             |                 |  |
|                                   |              | NBT               | 611                       | 584                             | 27       | 4%         | 72.8                     | E                       | 692                              | 78.9                                | E                       |   |                             | 183                 | 561             |                 |  |
|                                   |              | NBR               | 32                        | 29                              | 3        | 8%         | 53.5                     | D                       |                                  |                                     |                         |   |                             | 227                 | 618             |                 |  |
|                                   |              | SLB               | 5                         | 5                               | 0        | 5%         | 36.6                     | D                       |                                  |                                     |                         |   |                             | 71                  | 424             |                 |  |
|                                   |              | SBT               | 563                       | 563                             | -1       | 0%         | 26.7                     | C                       | 1058                             | 20.2                                | C                       |   |                             | 71                  | 424             |                 |  |
|                                   |              | SBR               | 486                       | 487                             | -1       | 0%         | 12.5                     | B                       |                                  |                                     |                         |   |                             | 71                  | 424             |                 |  |
| Summerdale Ave and Godfrey Ave    | Unsignalized | EBT               | 12                        | 12                              | 0        | -2%        | 53.9                     | F                       | 288                              | 61.3                                | F                       | 56.4                                    | F                           | 114                 | 494             |                 |  |
|                                   |              | EBR               | 277                       | 276                             | 1        | 0%         | 61.6                     | F                       |                                  |                                     |                         |   |                             | 118                 | 496             |                 |  |
|                                   |              | WBL               | 11                        | 13                              | -2       | -22%       | 62.2                     | F                       |                                  |                                     |                         |   |                             | 4                   | 61              |                 |  |
|                                   |              | WBT               | 5                         | 6                               | -1       | -12%       | 31.3                     | D                       | 27                               | 44.2                                | E                       |   |                             | 4                   | 79              |                 |  |
|                                   |              | WBR to Pratt      | 3                         | 3                               | 1        | 17%        | 21.3                     | C                       |                                  |                                     |                         |   |                             | 4                   | 78              |                 |  |
|                                   |              | WBR to Summerdale | 5                         | 5                               | 0        | -1%        | 26.2                     | D                       |                                  |                                     |                         |   |                             | 4                   | 78              |                 |  |
|                                   |              | NBL               | 108                       | 117                             | -9       | -8%        | 20.8                     | C                       | 511                              | 25.6                                | D                       |   |                             | 20                  | 349             |                 |  |
|                                   |              | NBT               | 362                       | 380                             | -17      | -5%        | 27.3                     | D                       |                                  |                                     |                         |   |                             | 46                  | 443             |                 |  |
|                                   |              | NBR               | 13                        | 14                              | -1       | -8%        | 20.1                     | C                       |                                  |                                     |                         |   |                             | 27                  | 387             |                 |  |
|                                   |              | SLB               | 11                        | 9                               | 2        | 19%        | 93.7                     | F                       |                                  |                                     |                         |   |                             | 307                 | 612             |                 |  |
|                                   |              | SBT               | 804                       | 594                             | 209      | 26%        | 80.6                     | F                       | 603                              | 80.8                                | F                       |   |                             | 307                 | 612             |                 |  |
| Summerdale Ave and Pratt St       | Signalized   | EBL               | 3                         | 3                               | 0        | -2%        | 23.7                     | C                       | 80                               | 35.2                                | D                       | 55.0                                    | E                           | 9                   | 257             |                 |  |
|                                   |              | EBT               | 79                        | 77                              | 2        | 3%         | 35.6                     | D                       |                                  |                                     |                         |   |                             | 9                   | 257             |                 |  |
|                                   |              | WBL to Summerdale | 30                        | 27                              | 4        | 12%        | 40.7                     | D                       |                                  |                                     |                         |   |                             | 11                  | 167             |                 |  |
|                                   |              | WBL to Godfrey    | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 11                  | 167             |                 |  |
|                                   |              | WBT               | 50                        | 44                              | 7        | 14%        | 22.8                     | C                       | 115                              | 25.8                                | C                       |   |                             | 11                  | 167             |                 |  |
|                                   |              | WBR               | 49                        | 41                              | 8        | 17%        | 19.1                     | B                       |                                  |                                     |                         |   |                             | 19                  | 202             |                 |  |
|                                   |              | NBT               | 358                       | 380                             | -22      | -6%        | 27.3                     | C                       | 390                              | 27.3                                | C                       |   |                             | 46                  | 443             |                 |  |
|                                   |              | NBR               | 4                         | 10                              | -6       | -140%      | 24.8                     | C                       |                                  |                                     |                         |   |                             | 54                  | 475             |                 |  |
|                                   |              | SLB               | 35                        | 27                              | 7        | 21%        | 73.8                     | E                       | 627                              | 80.1                                | F                       |   |                             | 307                 | 612             |                 |  |
|                                   |              | SBT               | 784                       | 594                             | 189      | 24%        | 80.6                     | F                       |                                  |                                     |                         |   |                             | 307                 | 612             |                 |  |
|                                   |              | SBR               | 3                         | 1                               | 2        | 56%        | 25.9                     | C                       |                                  |                                     |                         |   |                             | 334                 | 643             |                 |  |
| Summerdale Ave and Bridge St      | Signalized   | EBL               | 4                         | 4                               | 0        | 7%         | 19.9                     | B                       | 53                               | 15.7                                | B                       | 45.2                                    | D                           | 4                   | 71              |                 |  |
|                                   |              | EBT               | 41                        | 41                              | 0        | -1%        | 14.2                     | B                       |                                  |                                     |                         |   |                             | 4                   | 71              |                 |  |
|                                   |              | EBR               | 8                         | 8                               | 1        | 10%        | 21.8                     | C                       |                                  |                                     |                         |   |                             | 14                  | 141             |                 |  |
|                                   |              | WBL               | 37                        | 37                              | 0        | 0%         | 26.6                     | C                       | 176                              | 19.1                                | B                       |   |                             | 14                  | 141             |                 |  |
|                                   |              | WBT               | 96                        | 94                              | 2        | 2%         | 17.1                     | B                       |                                  |                                     |                         |   |                             | 37                  | 315             |                 |  |
|                                   |              | WBR               | 44                        | 45                              | -1       | -2%        | 17.4                     | B                       | 435                              | 18.9                                | B                       |   |                             | 37                  | 315             |                 |  |
|                                   |              | NBL               | 11                        | 11                              | 0        | -2%        | 31.6                     | C                       |                                  |                                     |                         |   |                             | 37                  | 315             |                 |  |
|                                   |              | NBT               | 380                       | 396                             | -16      | -4%        | 18.6                     | B                       |                                  |                                     |                         |   |                             | 84                  | 434             |                 |  |
|                                   |              | NBR               | 23                        | 26                              | -3       | -12%       | 17.6                     | B                       | 663                              | 71.8                                | E                       |   |                             | 301                 | 608             |                 |  |
|                                   |              | SLB               | 68                        | 56                              | 12       | 18%        | 64.0                     | E                       |                                  |                                     |                         |   |                             | 301                 | 608             |                 |  |
|                                   |              | SBT               | 776                       | 599                             | 177      | 23%        | 72.5                     | E                       |                                  |                                     |                         |   |                             | 301                 | 608             |                 |  |
|                                   |              | SBR               | 6                         | 4                               | 2        | 35%        | 74.4                     | E                       |                                  |                                     |                         |   |                             | 305                 | 643             |                 |  |
| Summerdale Ave and Sanger St      | Signalized   | EBL               | 24                        | 23                              | 2        | 6%         | 20.0                     | C                       | 65                               | 16.3                                | B                       | 47.2                                    | D                           | 4                   | 84              |                 |  |
|                                   |              | EBT               | 30                        | 33                              | -2       | -7%        | 14.3                     | B                       |                                  |                                     |                         |   |                             | 4                   | 84              |                 |  |
|                                   |              | EBR               | 11                        | 10                              | 1        | 8%         | 14.5                     | B                       | 63                               | 14.6                                | B                       |   |                             | 10                  | 115             |                 |  |
|                                   |              | WBL               | 6                         | 5                               | 1        | 16%        | 19.9                     | B                       |                                  |                                     |                         |   |                             | 4                   | 72              |                 |  |
|                                   |              | WBT               | 44                        | 46                              | -2       | -4%        | 15.1                     | B                       | 456                              | 29.5                                | C                       |   |                             | 4                   | 72              |                 |  |
|                                   |              | WBR               | 13                        | 12                              | 1        | 6%         | 10.3                     | B                       |                                  |                                     |                         |   |                             | 8                   | 101             |                 |  |
|                                   |              | NBL               | 21                        | 21                              | 0        | -1%        | 35.6                     | D                       |                                  |                                     |                         |   |                             | 68                  | 401             |                 |  |
|                                   |              | NBT               | 402                       | 419                             | -17      | -4%        | 29.2                     | C                       |                                  |                                     |                         |   |                             | 68                  | 401             |                 |  |
|                                   |              | NBR               | 13                        | 13                              | -1       | -4%        | 27.3                     | C                       | 688                              | 64.8                                | E                       |   |                             | 84                  | 434             |                 |  |
|                                   |              | SLB               | 40                        | 32                              | 8        | 20%        | 64.1                     | E                       |                                  |                                     |                         |   |                             | 278                 | 610             |                 |  |
|                                   |              | SBT               | 814                       | 633                             | 181      | 22%        | 65.1                     | E                       |                                  |                                     |                         |   |                             | 278                 | 610             |                 |  |
|                                   |              | SBR               | 27                        | 20                              | 7        | 27%        | 57.0                     | E                       |                                  |                                     |                         |   |                             | 305                 | 643             |                 |  |
| Summerdale Ave and Cheltenham Ave | Signalized   | EBL               | 7                         | 7                               | 0        | 3%         | 19.5                     | B                       | 29                               | 15.8                                | B                       | 58.5                                    | E                           | 2                   | 46              |                 |  |
|                                   |              | EBT               | 18                        | 18                              | 0        | -1%        | 13.9                     | B                       |                                  |                                     |                         |   |                             | 2                   | 46              |                 |  |
|                                   |              | EBR               | 4                         | 4                               | 0        | 0%         | 17.7                     | B                       | 45                               | 18.4                                | B                       |   |                             | 2                   | 46              |                 |  |
|                                   |              | WBL               | 12                        | 11                              | 1        | 6%         | 21.5                     | C                       |                                  |                                     |                         |   |                             | 3                   | 60              |                 |  |
|                                   |              | WBT               | 26                        | 28                              | -1       | -5%        | 16.0                     | B                       | 452                              | 38.2                                | D                       |   |                             | 3                   | 60              |                 |  |
|                                   |              | WBR               | 7                         | 7                               | 1        | 10%        | 23.6                     | C                       |                                  |                                     |                         |   |                             | 95                  | 531             |                 |  |
|                                   |              | NBL               | 5                         | 6                               | 0        | -5%        | 46.1                     | D                       |                                  |                                     |                         |   |                             | 95                  | 531             |                 |  |
|                                   |              | NBT               | 419                       | 430                             | -11      | -3%        | 38.4                     | D                       |                                  |                                     |                         |   |                             | 95                  | 531             |                 |  |
|                                   |              | NBR               | 14                        | 14                              | 0        | 0%         | 31.2                     | C                       | 711                              | 75.7                                | E                       |   |                             | 371                 | 726             |                 |  |
|                                   |              | SLB               | 24                        | 20                              | 5        | 19%        | 68.9                     | E                       |                                  |                                     |                         |   |                             | 371                 | 726             |                 |  |
|                                   |              | SBT               | 865                       | 677                             | 188      | 22%        | 76.2                     | E                       |                                  |                                     |                         |   |                             | 371                 | 726             |                 |  |
|                                   |              | SBR               | 17                        | 11                              | 6        | 35%        | 58.6                     | E                       |                                  |                                     |                         |   |                             | 371                 | 726             |                 |  |
| Summerdale Ave and Oxford Ave     | Signalized   | EBL               | 22                        | 22                              | 0        | 2%         | 33.4                     | C                       | 601                              | 30.5                                | C                       | 67.7                                    | E                           | 87                  | 570             |                 |  |
|                                   |              | EBT               | 317                       | 306                             | 11       | 4%         | 28.0                     | C                       |                                  |                                     |                         |   |                             | 87                  | 570             |                 |  |
|                                   |              | EBR               | 270                       | 271                             | -1       | 0%         | 33.1                     | C                       | 376                              | 13.3                                | B                       |   |                             | 87                  | 570             |                 |  |
|                                   |              | WBL               | 4                         | 3                               | 1        | 19%        | 53.0                     | D                       |                                  |                                     |                         |   |                             | 18                  | 218             |                 |  |
|                                   |              | WBT               | 357                       | 356                             | 2        | 0%         | 12.9                     | B                       | 431                              | 103.7                               | F                       |   |                             | 18                  | 218             |                 |  |
|                                   |              | WBR               | 17                        | 17                              | 0        | -2%        | 15.3                     | B                       |                                  |                                     |                         |   |                             | 245                 | 670             |                 |  |
|                                   |              | NBL               | 138                       | 139                             | -2       | -1%        | 137.2                    | F                       |                                  |                                     |                         |   |                             | 245                 | 670             |                 |  |
|                                   |              | NBT               | 282                       | 289                             | -7       | -2%        | 87.6                     | F                       |                                  |                                     |                         |   |                             | 245                 | 670             |                 |  |
|                                   |              | NBR               | 0                         | 0                               | 0        | N/A        |                          |                         |                                  |                                     |                         |   |                             |                     |                 |                 |  |

### AM Peak - 2025 Build-Screen 6

| Intersection                          | Control    | Movement              | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |
|---------------------------------------|------------|-----------------------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|
| Roosevelt Blvd & Front St             | Signalized | WBL1                  | 56                        | 55                              | 1        | 1%         | 1.0                      | A                       | 739                              | 16.8                                | B                       | 14.8                                    | B                           | 67                  | 130             |                 |
|                                       |            | WBL2                  | 49                        | 50                              | -1       | -3%        | 3.4                      | A                       |                                  |                                     |                         |   |                             | 67                  | 130             |                 |
|                                       |            | WBT                   | 599                       | 598                             | 0        | 0%         | 17.9                     | B                       |                                  |                                     |                         |   |                             | 67                  | 130             |                 |
|                                       |            | WBR1                  | 21                        | 22                              | -1       | -4%        | 41.9                     | D                       |                                  |                                     |                         |   |                             | 63                  | 357             |                 |
|                                       |            | WBR2                  | 13                        | 13                              | 0        | -3%        | 43.0                     | D                       |                                  |                                     |                         |   |                             | 63                  | 357             |                 |
|                                       |            | NBL1                  | 281                       | 281                             | 0        | 0%         | 139.2                    | F                       |                                  |                                     |                         |   |                             | 380                 | 96              | 232             |
|                                       |            | NBIT                  | 1645                      | 1645                            | 0        | 0%         | 18.0                     | B                       |                                  |                                     |                         |   |                             | 475                 | 48              | 313             |
|                                       |            | NBOT                  | 1278                      | 1275                            | 3        | 0%         | 18.4                     | B                       |                                  |                                     |                         |   |                             | 475                 | 67              | 347             |
|                                       |            | SBIT                  | 2271                      | 2058                            | 213      | 9%         | 3.4                      | A                       |                                  |                                     |                         |   |                             | 315                 | 11              | 106             |
|                                       |            | SBOT                  | 2265                      | 2050                            | 215      | 9%         | 3.8                      | A                       |                                  |                                     |                         |   |                             | 350                 | 23              | 167             |
|                                       |            | SBOR                  | 62                        | 46                              | 16       | 26%        | 8.8                      | A                       |                                  |                                     |                         |   |                             | 350                 | 23              | 167             |
| Roosevelt Blvd & Rising Sun Ave       | Signalized | EGL1 (I)              | 34                        | 31                              | 3        | 9%         | 9.0                      | A                       | 555                              | 49.3                                | D                       | 15.4                                    | B                           | 28                  | 196             |                 |
|                                       |            | EGL2 (O)              | 38                        | 39                              | -1       | -3%        | 10.9                     | B                       |                                  |                                     |                         |   |                             | 28                  | 196             |                 |
|                                       |            | EBT                   | 275                       | 271                             | 4        | 1%         | 54.6                     | D                       |                                  |                                     |                         |   |                             | 155                 | 653             |                 |
|                                       |            | EGL1 (I)              | 110                       | 109                             | 1        | 1%         | 56.4                     | E                       |                                  |                                     |                         |   |                             | 155                 | 653             |                 |
|                                       |            | EGL2 (O)              | 96                        | 96                              | 0        | 0%         | 54.8                     | D                       |                                  |                                     |                         |   |                             | 155                 | 653             |                 |
|                                       |            | WBL1 (I)              | 57                        | 59                              | -2       | -4%        | 12.3                     | B                       |                                  |                                     |                         |   |                             | 60                  | 6               | 168             |
|                                       |            | WBL2 (O)              | 49                        | 46                              | 3        | 5%         | 18.2                     | B                       |                                  |                                     |                         |   |                             | 60                  | 6               | 168             |
|                                       |            | WBT                   | 333                       | 333                             | 0        | 0%         | 42.1                     | D                       |                                  |                                     |                         |   |                             | 60                  | 116             | 487             |
|                                       |            | WBR1 (I)              | 52                        | 53                              | -1       | -2%        | 42.4                     | D                       |                                  |                                     |                         |   |                             | 60                  | 116             | 487             |
|                                       |            | WBR2 (O)              | 14                        | 12                              | 2        | 12%        | 40.6                     | D                       |                                  |                                     |                         |   |                             | 60                  | 116             | 487             |
|                                       |            | NBL1                  | N/A                       | N/A                             | N/A      | N/A        | -                        | N/A                     |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |
|                                       |            | NBIT                  | 1666                      | 1673                            | -6       | 0%         | 15.9                     | B                       |                                  |                                     |                         |   |                             | 245                 | 54              | 194             |
|                                       |            | NBOT                  | 1290                      | 1288                            | 2        | 0%         | 16.0                     | B                       |                                  |                                     |                         |   |                             | 230                 | 66              | 234             |
|                                       |            | SBIL                  | 253                       | 268                             | -15      | -6%        | 19.0                     | B                       |                                  |                                     |                         |   |                             | 250                 | 19              | 174             |
|                                       |            | SBIT                  | 2104                      | 1889                            | 216      | 10%        | 6.1                      | A                       |                                  |                                     |                         |   |                             | 450                 | 19              | 174             |
|                                       |            | SBOT                  | 2182                      | 1954                            | 228      | 10%        | 6.7                      | A                       |                                  |                                     |                         |   |                             | 550                 | 49              | 339             |
|                                       |            | SBOR                  | 161                       | 166                             | -5       | -3%        | 33.2                     | C                       |                                  |                                     |                         |   |                             | 550                 | 49              | 339             |
| Roosevelt Blvd & B St Michigan U-Turn | Signalized | WBR                   | 1                         | 1                               | 0        | 0%         | 0.6                      | A                       | 1756                             | 6.6                                 | A                       | 4.1                                     | A                           | 0                   | 14              |                 |
|                                       |            | NBIU1 (I)             | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 275                 | 43              | 262             |
|                                       |            | NBIU2 (O)             | 161                       | 166                             | -5       | -3%        | 44.0                     | D                       |                                  |                                     |                         |   |                             | 275                 | 43              | 262             |
|                                       |            | NBIT                  | 1591                      | 1590                            | 1        | 0%         | 2.7                      | A                       |                                  |                                     |                         |   |                             | 620                 | 1               | 51              |
|                                       |            | NBOT                  | 1343                      | 1341                            | 2        | 0%         | 3.6                      | A                       |                                  |                                     |                         |   |                             | 620                 | 6               | 71              |
|                                       |            | NBOR                  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 620                 | 6               | 71              |
|                                       |            | SBIT                  | 2357                      | 2155                            | 202      | 9%         | 3.1                      | A                       |                                  |                                     |                         |   |                             | 450                 | 7               | 102             |
|                                       |            | SBOT                  | 2182                      | 1954                            | 228      | 10%        | 3.4                      | A                       |                                  |                                     |                         |   |                             | 450                 | 6               | 119             |
| Roosevelt Blvd & C Street             | Signalized | EGL1 (I)              | 98                        | 95                              | 3        | 3%         | 19.1                     | B                       | 604                              | 51.1                                | D                       | 34.1                                    | C                           | 45                  | 200             |                 |
|                                       |            | EGL2 (O)              | 27                        | 29                              | -2       | -6%        | 21.6                     | C                       |                                  |                                     |                         |   |                             | 45                  | 200             |                 |
|                                       |            | EBT                   | 342                       | 345                             | -3       | -1%        | 59.8                     | E                       |                                  |                                     |                         |   |                             | 125                 | 547             |                 |
|                                       |            | EGL1 (I)              | 67                        | 64                              | 3        | 5%         | 58.5                     | E                       |                                  |                                     |                         |   |                             | 125                 | 547             |                 |
|                                       |            | EGL2 (O)              | 58                        | 58                              | 0        | -1%        | 58.3                     | E                       |                                  |                                     |                         |   |                             | 125                 | 547             |                 |
|                                       |            | WBL1 (I)              | 49                        | 47                              | 2        | 3%         | 9.4                      | A                       |                                  |                                     |                         |   |                             | 3                   | 160             |                 |
|                                       |            | WBL2 (O)              | 43                        | 42                              | 1        | 3%         | 8.1                      | A                       |                                  |                                     |                         |   |                             | 3                   | 160             |                 |
|                                       |            | WBT                   | 350                       | 350                             | 0        | 0%         | 105.6                    | F                       |                                  |                                     |                         |   |                             | 255                 | 708             |                 |
|                                       |            | WBR1 (I)              | 26                        | 25                              | 1        | 3%         | 107.1                    | F                       |                                  |                                     |                         |   |                             | 255                 | 708             |                 |
|                                       |            | WBR2 (O)              | 5                         | 5                               | 1        | 10%        | 121.3                    | F                       |                                  |                                     |                         |   |                             | 255                 | 708             |                 |
|                                       |            | NBL1                  | 4                         | 5                               | -1       | -18%       | 55.0                     | E                       |                                  |                                     |                         |   |                             | 640                 | 170             | 509             |
|                                       |            | NBIT                  | 1587                      | 1581                            | 7        | 0%         | 51.2                     | D                       |                                  |                                     |                         |   |                             | 640                 | 170             | 509             |
|                                       |            | NBOT                  | 1313                      | 1313                            | 0        | 0%         | 53.8                     | D                       |                                  |                                     |                         |   |                             | 640                 | 220             | 643             |
|                                       |            | NBOR                  | 32                        | 33                              | -1       | -3%        | 16.1                     | B                       |                                  |                                     |                         |   |                             | 640                 | 220             | 643             |
|                                       |            | SBIL                  | 197                       | 199                             | -2       | -1%        | 34.0                     | C                       |                                  |                                     |                         |   |                             | 255                 | 51              | 271             |
|                                       |            | SBIT                  | 2112                      | 1930                            | 182      | 9%         | 10.3                     | B                       |                                  |                                     |                         |   |                             | 775                 | 51              | 271             |
|                                       |            | SBOT                  | 2210                      | 1968                            | 242      | 11%        | 13.6                     | B                       |                                  |                                     |                         |   |                             | 785                 | 77              | 432             |
|                                       |            | SBOR                  | 138                       | 98                              | 40       | 29%        | 20.8                     | C                       |                                  |                                     |                         |   |                             | 785                 | 77              | 432             |
| Roosevelt Blvd & Rorer St - D St      | Signalized | EBR (from D St)       | 18                        | 18                              | 0        | 1%         | 1.6                      | A                       | 111                              | 1.6                                 | A                       | 4.9                                     | A                           | 0                   | 30              |                 |
|                                       |            | EBR (from Bingham St) | 111                       | 111                             | 0        | 0%         | 4.9                      | A                       |                                  |                                     |                         |   |                             | 1                   | 79              |                 |
|                                       |            | WBR                   | 47                        | 47                              | 0        | 0%         | 1.8                      | A                       |                                  |                                     |                         |   |                             | 0                   | 37              |                 |
|                                       |            | NBIT                  | 1711                      | 1701                            | 11       | 1%         | 3.1                      | A                       |                                  |                                     |                         |   |                             | 680                 | 4               | 62              |
|                                       |            | NBOT                  | 1344                      | 1346                            | -2       | 0%         | 3.6                      | A                       |                                  |                                     |                         |   |                             | 680                 | 9               | 111             |
|                                       |            | NBOR                  | 1                         | 1                               | 0        | 30%        | 7.6                      | A                       |                                  |                                     |                         |   |                             | 680                 | 9               | 111             |
|                                       |            | SBIT                  | 2309                      | 2123                            | 186      | 8%         | 4.7                      | A                       |                                  |                                     |                         |   |                             | 1150                | 11              | 119             |
|                                       |            | SBOT                  | 2204                      | 1920                            | 284      | 13%        | 7.6                      | A                       |                                  |                                     |                         |   |                             | 1160                | 28              | 245             |
|                                       |            | SBOR (to D St)        | 108                       | 71                              | 37       | 34%        | 7.4                      | A                       | 2030                             | 7.5                                 | A                       | 4.9                                     | A                           | 1160                | 28              | 245             |
|                                       |            | SBOR (to Bingham St)  | 54                        | 40                              | 14       | 26%        | 6.5                      | A                       |                                  |                                     |                         |   |                             | 1160                | 28              | 245             |
| Roosevelt Blvd & F Street             | Signalized | EGL1 (I)              | 34                        | 34                              | 0        | 0%         | 28.4                     | C                       | 595                              | 97.5                                | F                       | 25.8                                    | C                           | 46                  | 195             |                 |
|                                       |            | EGL2 (O)              | 37                        | 36                              | 1        | 2%         | 25.0                     | C                       |                                  |                                     |                         |   |                             | 46                  | 195             |                 |
|                                       |            | EBT                   | 349                       | 346                             | 3        | 1%         | 106.5                    | F                       |                                  |                                     |                         |   |                             | 311                 | 844             |                 |
|                                       |            | EGL1 (I)              | 99                        | 96                              | 3        | 3%         | 107.4                    | F                       |                                  |                                     |                         |   |                             | 311                 | 844             |                 |
|                                       |            | EGL2 (O)              | 86                        | 83                              | 3        | 3%         | 108.5                    | F                       |                                  |                                     |                         |   |                             | 311                 | 844             |                 |
|                                       |            | WBL1 (I)              | 58                        | 56                              | 2        | 4%         | 8.3                      | A                       |                                  |                                     |                         |   |                             | 54                  | 199             |                 |
|                                       |            | WBL2 (O)              | 50                        | 48                              | 2        | 4%         | 11.0                     | B                       |                                  |                                     |                         |   |                             | 54                  | 199             |                 |
|                                       |            | WBT                   | 378                       | 376                             | 2        | 1%         | 47.2                     | D                       | 483                              | 39.0                                | D                       | 25.8                                    | C                           | 101                 | 427             |                 |
|                                       |            | WBR1 (I)              | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 101                 | 427             |                 |
|                                       |            | WBR2 (O)              | 3                         | 4                               | -1       | -33%       | 38.2                     | D                       |                                  |                                     |                         |   |                             | 101                 | 427             |                 |
|                                       |            | NBL1                  | 137                       | 134                             | 3        | 2%         | 46.7                     | D                       |                                  |                                     |                         |   |                             | 170                 | 134             | 553             |
|                                       |            | NBIT                  | 1636                      | 1630                            | 6        | 0%         | 42.5                     | D                       |                                  |                                     |                         |   |                             | 1275                | 134             | 553             |
|                                       |            | NBOT                  | 1299                      | 1296                            | 4        | 0%         | 0.6                      | A                       |                                  |                                     |                         |   |                             | 1275                | 158             | 627             |
|                                       |            | NBOR                  | 30                        | 30                              | 0        | 1%         | 39.9                     | D                       |                                  |                                     |                         |   |                             | 1275                | 154             | 620             |
|                                       |            | SBIL                  | 192                       | 184                             | 9        | 4%         | 38.1                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                 |

### AM Peak - 2025 Build-Screen 6

| Intersection                                       | Control    | Movement  | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |
|--|------------|-----------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|
| Roosevelt Blvd & Whitaker Ave (South) - Garland St | Signalized | EBR       | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 0                                | 0.0                                 | A                       | 14.1                                    | B                           | 0                   | 0               | 0               |  |
|  |            | WBR1 (I)  | 327                       | 324                             | 3        | 1%         | 43.5                     | D                       | 400                              | 42.8                                | D                       |   |                             | 61                  | 266             |                 |  |
|  |            | WBR2 (O)  | 74                        | 76                              | -2       | -2%        | 39.8                     | D                       |                                  |                                     |                         |   |                             | 61                  | 266             |                 |  |
|  |            | NBIT      | 1670                      | 1664                            | 6        | 0%         | 14.9                     | B                       |                                  |                                     |                         |   |                             | 1080                | 39              | 270             |  |
|  |            | NBOT      | 1339                      | 1342                            | -3       | 0%         | 18.9                     | B                       |                                  |                                     |                         |   |                             | 1080                | 61              | 380             |  |
|  |            | NBOR      | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 112                 | 385             |                 |  |
|  |            | SBU1 (I)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 112                 | 385             |                 |  |
|  |            | SBU2 (O)  | 5                         | 4                               | 1        | 16%        | 41.8                     | D                       |                                  | 777                                 | 46.1                    | D                                       |                             | 320                 | 112             | 385             |  |
|  |            | SBL1      | 750                       | 773                             | -23      | -3%        | 46.1                     | D                       |                                  |                                     |                         |   |                             | 450                 | 27              | 320             |  |
|  |            | SBIT      | 2329                      | 2198                            | 130      | 6%         | 2.9                      | A                       |                                  | 2198                                | 2.9                     | A                                       |                             | 470                 | 3               | 75              |  |
|  |            | SBOT      | 2065                      | 1726                            | 339      | 16%        | 3.0                      | A                       |                                  | 1747                                | 3.0                     | A                                       |                             | 470                 | 3               | 75              |  |
|  |            | SBOR      | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |  |
| Roosevelt Blvd & Whitaker Ave (North) - Adams Ave  | Signalized | EBL1 (I)  | 134                       | 134                             | 0        | 0%         | 1.1                      | A                       | 849                              | 10.8                                | B                       | 17.7                                    | B                           | 0                   | 88              |                 |  |
|  |            | EBL2 (O)  | 409                       | 412                             | -3       | -1%        | 1.1                      | A                       |                                  |                                     |                         |   |                             | 0                   | 88              |                 |  |
|  |            | EBr1 (I)  | 180                       | 181                             | -1       | -1%        | 29.0                     | C                       |                                  |                                     |                         |   |                             | 59                  | 243             |                 |  |
|  |            | EBR2 (O)  | 121                       | 115                             | 6        | 5%         | 28.2                     | C                       |                                  |                                     |                         |   |                             | 59                  | 243             |                 |  |
|  |            | NBIU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 77                  | 352             |                 |  |
|  |            | NBIU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 77                  | 352             |                 |  |
|  |            | NBIL      | 323                       | 323                             | 0        | 0%         | 14.4                     | B                       |                                  | 1991                                | 33.5                    | C                                       |                             | 245                 | 77              | 352             |  |
|  |            | NBIT      | 1674                      | 1668                            | 6        | 0%         | 37.2                     | D                       |                                  |                                     |                         | 265                                     |                             | 223                 | 672             |                 |  |
|  |            | NBOT      | 1413                      | 1419                            | -6       | 0%         | 31.4                     | C                       |                                  | 1442                                | 31.4                    | C                                       |                             | 290                 | 167             | 662             |  |
|  |            | SBIT      | 2904                      | 2789                            | 114      | 4%         | 7.2                      | A                       |                                  | 2789                                | 7.2                     | A                                       |                             | 780                 | 32              | 319             |  |
|  |            | SBOT      | 2076                      | 1672                            | 405      | 19%        | 8.8                      | A                       |                                  | 2028                                | 9.8                     | A                                       |                             | 800                 | 32              | 238             |  |
|  |            | SBOR      | 392                       | 330                             | 62       | 16%        | 14.5                     | B                       |                                  |                                     |                         |   |                             | 800                 | 32              | 238             |  |
| Roosevelt BLvd & Tower Blvd                        | Signalized | EBR       | 43                        | 43                              | 0        | 0%         | 13.2                     | B                       | 43                               | 13.2                                | B                       | 5.7                                     | A                           | 1                   | 59              |                 |  |
|  |            | NBIU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 12                  | 132             |                 |  |
|  |            | NBIU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 12                  | 132             |                 |  |
|  |            | NBIL      | 167                       | 175                             | -8       | -5%        | 31.1                     | C                       |                                  |                                     |                         |   |                             | 320                 | 16              | 133             |  |
|  |            | NBIT      | 1641                      | 1635                            | 6        | 0%         | 5.1                      | A                       |                                  |                                     |                         |   |                             | 950                 | 8               | 170             |  |
|  |            | NBOT      | 1822                      | 1778                            | 44       | 2%         | 7.1                      | A                       |                                  | 1807                                | 7.1                     | A                                       |                             | 950                 | 22              | 379             |  |
|  |            | SBU1 (I)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         | 200                                     |                             | 31                  | 307             |                 |  |
|  |            | SBU1 (O)  | 159                       | 164                             | -5       | -3%        | 38.2                     | D                       |                                  | 2949                                | 5.2                     | A                                       |                             | 200                 | 31              | 307             |  |
|  |            | SBIT      | 2904                      | 2786                            | 118      | 4%         | 3.2                      | A                       |                                  |                                     |                         | 580                                     |                             | 1                   | 76              |                 |  |
|  |            | SBOT      | 2425                      | 1962                            | 463      | 19%        | 3.2                      | A                       |                                  | 2025                                | 3.2                     | A                                       |                             | 580                 | 1               | 72              |  |
|  |            | SBOR      | 51                        | 36                              | 15       | 30%        | 2.2                      | A                       |                                  |                                     |                         |   |                             | 580                 | 0               | 66              |  |
| Roosevelt Blvd & Langdon St                        | Signalized | EBL1 (I)  | 85                        | 84                              | 1        | 2%         | 1.0                      | A                       | 796                              | 32.8                                | C                       | 15.3                                    | B                           | 1                   | 109             |                 |  |
|  |            | EBL2 (O)  | 262                       | 268                             | -6       | -2%        | 6.9                      | A                       |                                  |                                     |                         |   |                             | 5                   | 140             |                 |  |
|  |            | EBT       | 347                       | 351                             | -4       | -1%        | 53.6                     | D                       |                                  |                                     |                         |   |                             | 200                 | 85              | 337             |  |
|  |            | EBR1 (I)  | 70                        | 65                              | 5        | 7%         | 57.6                     | E                       |                                  |                                     |                         |   |                             | 85                  | 337             |                 |  |
|  |            | EBR2 (O)  | 28                        | 29                              | -1       | -2%        | 56.6                     | E                       |                                  |                                     |                         |   |                             | 85                  | 337             |                 |  |
|  |            | WBL1 (I)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 0                   | 0               |                 |  |
|  |            | WBL2 (O)  | 5                         | 4                               | 1        | 16%        | 11.0                     | B                       |                                  |                                     |                         |   |                             | 200                 | 25              | 163             |  |
|  |            | WBT       | 9                         | 9                               | 0        | 1%         | 55.0                     | D                       |                                  | 88                                  | 54.2                    | D                                       |                             | 25                  | 163             |                 |  |
|  |            | WBR1 (I)  | 50                        | 50                              | 0        | 0%         | 54.0                     | D                       |                                  |                                     |                         | 25                                      |                             | 163                 |                 |                 |  |
|  |            | WBR2 (O)  | 26                        | 25                              | 1        | 3%         | 61.4                     | E                       |                                  |                                     |                         | 190                                     |                             | 2                   | 26              |                 |  |
|  |            | NBLU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         | 580                                     |                             | 61                  | 380             |                 |  |
|  |            | NBLU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         | 600                                     |                             | 137                 | 634             |                 |  |
|  |            | NBIT      | 1694                      | 1687                            | 7        | 0%         | 69.4                     | E                       |                                  |                                     |                         | 600                                     |                             | 137                 | 634             |                 |  |
|  |            | NBOT      | 1834                      | 1852                            | -18      | -1%        | 20.7                     | C                       |                                  | 1974                                | 21.3                    | C                                       |                             | N/A                 | N/A             |                 |  |
|  |            | NBOR      | 88                        | 92                              | -4       | -5%        | 32.6                     | C                       |                                  |                                     |                         | 400                                     |                             | 32                  | 275             |                 |  |
|  |            | SBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       | 3012                             | 6.7                                 | A                       | 415                                     |                             | 68                  | 423             |                 |  |
|  |            | SBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         | 415                                     |                             | 68                  | 423             |                 |  |
|  |            | SBIL      | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             |                     |                 |                 |  |
|  |            | SBIT      | 3124                      | 3012                            | 111      | 4%         | 6.7                      | A                       |                                  | 2138                                | 11.2                    | B                                       |                             |                     |                 |                 |  |
|  |            | SBOT      | 2313                      | 1840                            | 472      | 20%        | 9.2                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |  |
|  |            | SBOR      | 272                       | 271                             | 1        | 0%         | 25.0                     | C                       |                                  |                                     |                         |   |                             |                     |                 |                 |  |
| Roosevelt Blvd & Summerdale Ave - Adams Ave        | Signalized | ERL1 (I)  | 5                         | 6                               | -1       | -24%       | 20.4                     | C                       | 1054                             | 86.7                                | F                       | 44.7                                    | D                           | 0                   | 80              |                 |  |
|  |            | EBL2 (O)  | 7                         | 7                               | 0        | -4%        | 21.0                     | C                       |                                  |                                     |                         |   |                             | 0                   | 80              |                 |  |
|  |            | EBT       | 323                       | 385                             | -62      | -19%       | 80.3                     | F                       |                                  |                                     |                         |   |                             | 1700                | 280             | 1219            |  |
|  |            | EBR1 (I)  | 281                       | 325                             | -44      | -16%       | 87.9                     | F                       |                                  |                                     |                         |   |                             | 300                 | 280             | 1219            |  |
|  |            | EBR2 (O)  | 282                       | 330                             | -48      | -17%       | 95.7                     | F                       |                                  |                                     |                         |   |                             | 300                 | 280             | 1219            |  |
|  |            | WBL1 (I)  | 247                       | 233                             | 14       | 6%         | 21.1                     | C                       |                                  |                                     |                         |   |                             | 730                 | 559             | 888             |  |
|  |            | WBL2 (O)  | 337                       | 315                             | 23       | 7%         | 24.3                     | C                       |                                  |                                     |                         |   |                             | 730                 | 559             | 888             |  |
|  |            | WBT       | 142                       | 137                             | 5        | 3%         | 165.8                    | F                       |                                  | 764                                 | 66.0                    | E                                       |                             | 120                 | 234             | 811             |  |
|  |            | WBR1 (I)  | 43                        | 44                              | -1       | -2%        | 206.5                    | F                       |                                  |                                     |                         | 730                                     |                             | 173                 | 558             |                 |  |
|  |            | WBR2 (O)  | 28                        | 27                              | 1        | 4%         | 206.2                    | F                       |                                  |                                     |                         | 730                                     |                             | 594                 | 923             |                 |  |
|  |            | NBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         | N/A                                     |                             | N/A                 |                 |                 |  |
|  |            | NBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         | N/A                                     |                             | N/A                 |                 |                 |  |
|  |            | NBIL      | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         | N/A                                     |                             | N/A                 |                 |                 |  |
|  |            | NBIT      | 1829                      | 1818                            | 11       | 1%         | 16.0                     | B                       | 1818                             | 16.0                                | B                       | 450                                     |                             | 52                  | 290             |                 |  |
|  |            | NBOT      | 1379                      | 1401                            | -21      | -2%        | 18.6                     | B                       |                                  |                                     |                         | 450                                     |                             | 1                   | 38              |                 |  |
|  |            | NBOR      | 743                       | 748                             | -5       | -1%        | 35.7                     | D                       |                                  | 2178                                | 24.6                    | C                                       |                             | 450                 | 30              | 574             |  |
|  |            | SBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         | N/A                                     |                             | N/A                 |                 |                 |  |
|  |            | SBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         | N/A                                     |                             | N/A                 |                 |                 |  |
|  |            | SBIL      | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         | N/A                                     |                             | N/A                 |                 |                 |  |
|  |            | SBIT      | 2596                      | 2455                            | 141      | 5%         | 21.3                     | C                       |                                  |                                     |                         | 950                                     |                             | 94                  | 796             |                 |  |
|  |            | SBOT      | 2286                      | 1467                            | 819      | 36%        | 97.9                     | F                       |                                  | 1802                                | 96.3                    | F                                       |                             | 950                 | 660             | 1053            |  |
|  |            | SBOR      | 320                       | 318                             | 2        | 1%         | 88.9                     | F                       |                                  |                                     |                         | 950                                     |                             | 660                 | 1053            |                 |  |
|  |            | WBR       | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  | 0                                   | 0.0                     | A                                       | 40.2                        | D                   | 0               | 0               |  |
|  |            | NBIU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         | 300                                     |                             | 22                  | 170             |                 |  |
|  |            | NBIU2 (O) | 318                       | 316                             | 2        | 1%         | 25.5                     | C                       |                                  | 1867                                | 7.6                     | A                                       |                             | 300                 | 22              | 170             |  |
|  |            | NBIT      | 1559                      | 1550                            | 8        | 1%         | 3.9                      | A                       |                                  |                                     |                         | 1090                                    |                             | 2                   | 57              |                 |  |
|  |            | NBOT      | 1357                      | 1360                            | -2       | 0%         | 9.4                      | A                       |                                  | 1380                                | 9.4                     | A</                                     |                             |                     |                 |                 |  |

### AM Peak - 2025 Build-Screen 6

| Intersection                   | Control      | Movement           | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |
|--------------------------------|--------------|--------------------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|
| Roosevelt Blvd & Pratt Street  | Signalized   | E BL1 (I)          | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 201                              | 446.8                               | F                       | 109.9                                   | F                           | 57                  | 179             |                 |  |
|                                |              | E BL2 (O)          | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 57                  | 179             |                 |  |
|                                |              | E BT               | 108                       | 83                              | 25       | 23%        | 422.9                    | F                       |                                  |                                     |                         |   |                             | 649                 | 1010            |                 |  |
|                                |              | E BR1 (I)          | 85                        | 66                              | 19       | 22%        | 472.6                    | F                       |                                  |                                     |                         |   |                             | 649                 | 1010            |                 |  |
|                                |              | E BR2 (O)          | 66                        | 49                              | 17       | 26%        | 452.2                    | F                       |                                  |                                     |                         |   |                             | 649                 | 1010            |                 |  |
|                                |              | W BL1 (I)          | 110                       | 110                             | 0        | 0%         | 4.5                      | A                       | 561                              | 70.3                                | E                       |   |                             | 11                  | 204             |                 |  |
|                                |              | W BL2 (O)          | 87                        | 92                              | -5       | -5%        | 9.4                      | A                       |                                  |                                     |                         |   |                             | 11                  | 204             |                 |  |
|                                |              | W BT               | 307                       | 306                             | 1        | 0%         | 109.7                    | F                       |                                  |                                     |                         |   |                             | 246                 | 640             |                 |  |
|                                |              | W BR1 (I)          | 21                        | 21                              | 0        | 0%         | 100.5                    | F                       |                                  |                                     |                         |   |                             | 246                 | 640             |                 |  |
|                                |              | W BR2 (O)          | 3                         | 3                               | 0        | -3%        | 116.0                    | F                       |                                  |                                     |                         |   |                             | 246                 | 640             |                 |  |
|                                |              | N BIL              | 1                         | 2                               | -1       | -50%       | 16.8                     | B                       | 1696                             | 20.9                                | C                       |   |                             | 140                 | 53              |                 |  |
|                                |              | N BIT              | 1713                      | 1695                            | 18       | 1%         | 20.9                     | C                       |                                  |                                     |                         |   |                             | 1140                | 53              |                 |  |
|                                |              | N BOT              | 1162                      | 1159                            | 3        | 0%         | 18.4                     | B                       |                                  |                                     |                         |   |                             | 1140                | 64              |                 |  |
|                                |              | N BOR              | 231                       | 237                             | -6       | -2%        | 29.7                     | C                       |                                  |                                     |                         |   |                             | 1140                | 64              |                 |  |
|                                |              | S BIL              | 89                        | 90                              | -1       | -1%        | 55.8                     | E                       | 2442                             | 84.9                                | F                       |   |                             | 500                 | 277             |                 |  |
|                                |              | S BIT              | 2489                      | 2352                            | 136      | 5%         | 86.0                     | F                       |                                  |                                     |                         |   |                             | 500                 | 277             |                 |  |
|                                |              | S BOT              | 1578                      | 1095                            | 483      | 31%        | 376.3                    | F                       |                                  |                                     |                         |   |                             | 500                 | 2297            |                 |  |
|                                |              | S BOR              | 1                         | 1                               | 0        | 30%        | 161.6                    | F                       |                                  |                                     |                         |   |                             | 500                 | 2478            |                 |  |
| Adams Ave & Ramona Ave         | Signalized   | E BL               | 137                       | 137                             | -1       | -1%        | 41.8                     | D                       | 336                              | 37.2                                | D                       | 50.3                                    | D                           | 50                  | 304             |                 |  |
|                                |              | E BT               | 202                       | 199                             | 3        | 1%         | 34.1                     | C                       |                                  |                                     |                         |   |                             | 50                  | 304             |                 |  |
|                                |              | E BR               | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 40                  | 287             |                 |  |
|                                |              | W BL               | 2                         | 2                               | 0        | 5%         | 45.5                     | D                       |                                  |                                     |                         |   |                             | 43                  | 259             |                 |  |
|                                |              | W BT               | 201                       | 203                             | -3       | -1%        | 51.7                     | D                       |                                  |                                     |                         |   |                             | 43                  | 259             |                 |  |
|                                |              | W BR               | 48                        | 46                              | 3        | 6%         | 47.4                     | D                       | 695                              | 106.2                               | F                       |   |                             | 54                  | 276             |                 |  |
|                                |              | N BL               | 74                        | 73                              | 1        | 1%         | 180.0                    | F                       |                                  |                                     |                         |   |                             | 253                 | 673             |                 |  |
|                                |              | N BT               | 611                       | 586                             | 26       | 4%         | 98.7                     | F                       |                                  |                                     |                         |   |                             | 253                 | 673             |                 |  |
|                                |              | N BR               | 32                        | 29                              | 3        | 9%         | 72.3                     | E                       |                                  |                                     |                         |   |                             | 300                 | 730             |                 |  |
|                                |              | S BL               | 5                         | 5                               | 0        | 3%         | 29.3                     | C                       |                                  |                                     |                         |   |                             | 75                  | 441             |                 |  |
|                                |              | S BT               | 563                       | 598                             | -36      | -6%        | 26.1                     | C                       | 1119                             | 19.6                                | B                       |   |                             | 75                  | 441             |                 |  |
|                                |              | S BR               | 486                       | 513                             | -27      | -6%        | 11.9                     | B                       |                                  |                                     |                         |   |                             | 75                  | 441             |                 |  |
| Summerdale Ave and Godfrey Ave | Unsignalized | E BT               | 12                        | 12                              | 0        | -4%        | 29.7                     | D                       | 286                              | 23.6                                | C                       | 29.8                                    | D                           | 36                  | 271             |                 |  |
|                                |              | E BR               | 277                       | 274                             | 3        | 1%         | 23.4                     | C                       |                                  |                                     |                         |   |                             | 40                  | 273             |                 |  |
|                                |              | W BL               | 11                        | 12                              | -2       | -14%       | 32.5                     | D                       |                                  |                                     |                         |   |                             | 2                   | 53              |                 |  |
|                                |              | W BT               | 5                         | 5                               | 0        | 3%         | 19.8                     | C                       | 24                               | 29.5                                | D                       |   |                             | 2                   | 73              |                 |  |
|                                |              | W BR to Pratt      | 3                         | 3                               | 1        | 21%        | 27.1                     | D                       |                                  |                                     |                         |   |                             | 2                   | 72              |                 |  |
|                                |              | W BR to Summerdale | 5                         | 5                               | 0        | 9%         | 33.6                     | D                       |                                  |                                     |                         |   |                             | 2                   | 72              |                 |  |
|                                |              | N BL               | 108                       | 118                             | -10      | -9%        | 31.7                     | D                       | 518                              | 37.9                                | E                       |   |                             | 70                  | 550             |                 |  |
|                                |              | N BT               | 362                       | 385                             | -23      | -6%        | 39.9                     | E                       |                                  |                                     |                         |   |                             | 101                 | 645             |                 |  |
|                                |              | N BR               | 13                        | 15                              | -2       | -17%       | 36.0                     | E                       |                                  |                                     |                         |   |                             | 79                  | 589             |                 |  |
|                                |              | S BL               | 11                        | 10                              | 1        | 5%         | 29.6                     | D                       |                                  |                                     |                         |   |                             | 112                 | 573             |                 |  |
|                                |              | S BT               | 804                       | 731                             | 73       | 9%         | 26.5                     | D                       |                                  |                                     |                         |   |                             | 112                 | 573             |                 |  |
| Summerdale Ave and Pratt St    | Signalized   | E BL               | 3                         | 3                               | 0        | -8%        | 29.3                     | C                       | 80                               | 28.1                                | C                       | 30.4                                    | C                           | 10                  | 195             |                 |  |
|                                |              | E BT               | 79                        | 77                              | 2        | 3%         | 28.0                     | C                       |                                  |                                     |                         |   |                             | 10                  | 195             |                 |  |
|                                |              | W BL to Summerdale | 30                        | 27                              | 4        | 13%        | 27.1                     | C                       |                                  |                                     |                         |   |                             | 12                  | 191             |                 |  |
|                                |              | W BL to Godfrey    | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 111                              | 24.3                                | C                       |   |                             | 12                  | 191             |                 |  |
|                                |              | W BT               | 50                        | 42                              | 8        | 16%        | 24.3                     | C                       |                                  |                                     |                         |   |                             | 12                  | 191             |                 |  |
|                                |              | W BR               | 49                        | 40                              | 10       | 20%        | 22.4                     | C                       | 388                              | 39.8                                | D                       |   |                             | 19                  | 226             |                 |  |
|                                |              | N BT               | 358                       | 385                             | -27      | -8%        | 39.9                     | D                       |                                  |                                     |                         |   |                             | 101                 | 645             |                 |  |
|                                |              | N BR               | 4                         | 2                               | 2        | 45%        | 28.8                     | C                       |                                  |                                     |                         |   |                             | 111                 | 677             |                 |  |
|                                |              | S BL               | 35                        | 33                              | 2        | 6%         | 33.1                     | C                       | 769                              | 26.8                                | C                       |   |                             | 112                 | 573             |                 |  |
|                                |              | S BT               | 784                       | 731                             | 53       | 7%         | 26.5                     | C                       |                                  |                                     |                         |   |                             | 112                 | 573             |                 |  |
|                                |              | S BR               | 3                         | 2                               | 1        | 24%        | 18.3                     | B                       |                                  |                                     |                         |   |                             | 122                 | 604             |                 |  |
| Summerdale Ave and Bridge St   | Signalized   | E BL               | 4                         | 4                               | 1        | 14%        | 33.7                     | C                       | 53                               | 15.8                                | B                       | 30.9                                    | C                           | 4                   | 70              |                 |  |
|                                |              | E BT               | 41                        | 42                              | -1       | -2%        | 14.3                     | B                       |                                  |                                     |                         |   |                             | 4                   | 70              |                 |  |
|                                |              | E BR               | 8                         | 8                               | 1        | 11%        | 15.6                     | B                       |                                  |                                     |                         |   |                             | 4                   | 70              |                 |  |
|                                |              | W BL               | 37                        | 35                              | 2        | 5%         | 18.7                     | B                       | 175                              | 20.3                                | C                       |   |                             | 16                  | 163             |                 |  |
|                                |              | W BT               | 96                        | 95                              | 1        | 1%         | 18.3                     | B                       |                                  |                                     |                         |   |                             | 16                  | 163             |                 |  |
|                                |              | W BR               | 44                        | 45                              | -1       | -2%        | 25.7                     | C                       | 435                              | 43.9                                | D                       |   |                             | 16                  | 163             |                 |  |
|                                |              | N BL               | 11                        | 11                              | -1       | -5%        | 43.3                     | D                       |                                  |                                     |                         |   |                             | 94                  | 444             |                 |  |
|                                |              | N BT               | 380                       | 395                             | -15      | -4%        | 44.5                     | D                       |                                  |                                     |                         |   |                             | 94                  | 444             |                 |  |
|                                |              | N BR               | 23                        | 25                              | -2       | -10%       | 33.7                     | C                       |                                  |                                     |                         |   |                             | 94                  | 444             |                 |  |
|                                |              | S BL               | 68                        | 67                              | 2        | 2%         | 28.2                     | C                       | 811                              | 27.3                                | C                       |   |                             | 117                 | 569             |                 |  |
|                                |              | S BT               | 776                       | 735                             | 41       | 5%         | 27.2                     | C                       |                                  |                                     |                         |   |                             | 117                 | 569             |                 |  |
|                                |              | S BR               | 6                         | 5                               | 1        | 19%        | 24.7                     | C                       |                                  |                                     |                         |   |                             | 117                 | 569             |                 |  |
| Summerdale Ave and Sanger St   | Signalized   | E BL               | 24                        | 23                              | 1        | 6%         | 27.0                     | C                       | 65                               | 18.8                                | B                       | 44.3                                    | D                           | 5                   | 80              |                 |  |
|                                |              | E BT               | 30                        | 33                              | -3       | -8%        | 15.2                     | B                       |                                  |                                     |                         |   |                             | 5                   | 80              |                 |  |
|                                |              | E BR               | 11                        | 9                               | 1        | 11%        | 11.4                     | B                       |                                  |                                     |                         |   |                             | 10                  | 112             |                 |  |
|                                |              | W BL               | 6                         | 5                               | 1        | 21%        | 17.8                     | B                       | 63                               | 15.4                                | B                       |   |                             | 4                   | 75              |                 |  |
|                                |              | W BT               | 44                        | 45                              | -1       | -3%        | 15.6                     | B                       |                                  |                                     |                         |   |                             | 9                   | 104             |                 |  |
|                                |              | W BR               | 13                        | 13                              | 0        | 0%         | 13.7                     | B                       | 440                              | 75.2                                | E                       |   |                             | 206                 | 555             |                 |  |
|                                |              | N BL               | 21                        | 21                              | 0        | -2%        | 77.5                     | E                       |                                  |                                     |                         |   |                             | 206                 | 555             |                 |  |
|                                |              | N BT               | 402                       | 403                             | 0        | 0%         | 75.2                     | E                       |                                  |                                     |                         |   |                             | 228                 | 588             |                 |  |
|                                |              | N BR               | 13                        | 13                              | 0        | -3%        | 69.2                     | E                       |                                  |                                     |                         |   |                             | 151                 | 597             |                 |  |
|                                |              | S BL               | 40                        | 38                              | 2        | 6%         | 37.0                     | D                       | 839                              | 32.3                                | C                       |   |                             | 151                 | 597             |                 |  |
|                                |              | S BT               | 814                       | 773                             | 41       | 5%         | 32.1                     | C                       |                                  |                                     |                         |   |                             | 173                 | 630             |                 |  |

### AM Peak - 2025 Build-Screen 6

| Intersection                      | Control    | Movement | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |
|-----------------------------------|------------|----------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|
| Summerdale Ave and Cheltenham Ave | Signalized | EBL      | 7                         | 7                               | 0        | 2%         | 28.3                     | C                       | 29                               | 17.6                                | B                       | 56.2                                    | E                           | 2                   | 47              |                 |  |
|                                   |            | EBT      | 18                        | 18                              | 0        | 0%         | 14.0                     | B                       |                                  |                                     |                         |   |                             | 2                   | 47              |                 |  |
|                                   |            | EBR      | 4                         | 4                               | 0        | -2%        | 14.8                     | B                       |                                  |                                     |                         |   |                             | 2                   | 47              |                 |  |
|                                   |            | WBL      | 12                        | 11                              | 0        | 1%         | 16.8                     | B                       |                                  |                                     |                         |   |                             | 3                   | 60              |                 |  |
|                                   |            | WBT      | 26                        | 27                              | -1       | -2%        | 15.7                     | B                       | 45                               | 17.6                                | B                       |   |                             | 3                   | 60              |                 |  |
|                                   |            | WBR      | 7                         | 7                               | 1        | 7%         | 26.4                     | C                       |                                  |                                     |                         |   |                             | 3                   | 60              |                 |  |
|                                   |            | NBL      | 5                         | 5                               | 0        | 5%         | 95.4                     | F                       |                                  |                                     |                         |   |                             | 248                 | 540             |                 |  |
|                                   |            | NBT      | 419                       | 408                             | 11       | 3%         | 92.6                     | F                       | 428                              | 92.4                                | F                       |   |                             | 248                 | 540             |                 |  |
|                                   |            | NBR      | 14                        | 13                              | 1        | 6%         | 85.1                     | F                       |                                  |                                     |                         |   |                             | 248                 | 540             |                 |  |
|                                   |            | SEL      | 24                        | 24                              | 0        | -1%        | 46.8                     | D                       |                                  |                                     |                         |   |                             | 217                 | 706             |                 |  |
|                                   |            | SBT      | 865                       | 826                             | 39       | 5%         | 41.5                     | D                       | 868                              | 41.7                                | D                       |   |                             | 217                 | 706             |                 |  |
|                                   |            | SBR      | 17                        | 15                              | 2        | 14%        | 41.5                     | D                       |                                  |                                     |                         |   |                             | 217                 | 706             |                 |  |
| Summerdale Ave and Oxford Ave     | Signalized | EBL      | 22                        | 21                              | 1        | 6%         | 21.1                     | C                       | 604                              | 17.7                                | B                       | 64.6                                    | E                           | 44                  | 416             |                 |  |
|                                   |            | EBT      | 317                       | 307                             | 10       | 3%         | 16.9                     | B                       |                                  |                                     |                         |   |                             | 44                  | 416             |                 |  |
|                                   |            | EBR      | 270                       | 274                             | -3       | -1%        | 18.3                     | B                       |                                  |                                     |                         |   |                             | 44                  | 416             |                 |  |
|                                   |            | WBL      | 4                         | 4                               | 1        | 14%        | 30.0                     | C                       |                                  |                                     |                         |   |                             | 18                  | 207             |                 |  |
|                                   |            | WBT      | 357                       | 356                             | 1        | 0%         | 12.7                     | B                       | 376                              | 12.8                                | B                       |   |                             | 18                  | 207             |                 |  |
|                                   |            | WBR      | 17                        | 17                              | 0        | -1%        | 12.7                     | B                       |                                  |                                     |                         |   |                             | 18                  | 207             |                 |  |
|                                   |            | NBL      | 138                       | 127                             | 11       | 8%         | 219.6                    | F                       | 400                              | 168.4                               | F                       |   |                             | 418                 | 709             |                 |  |
|                                   |            | NBT      | 282                       | 271                             | 12       | 4%         | 144.5                    | F                       |                                  |                                     |                         |   |                             | 418                 | 709             |                 |  |
|                                   |            | NBR      | 0                         | 0                               | 0        | N/A        | 38.0                     | D                       |                                  |                                     |                         |   |                             | 418                 | 709             |                 |  |
|                                   |            | SEL      | 63                        | 57                              | 6        | 9%         | 78.5                     | E                       | 634                              | 74.7                                | E                       |   |                             | 312                 | 614             |                 |  |
|                                   |            | SBT      | 612                       | 569                             | 43       | 7%         | 74.3                     | E                       |                                  |                                     |                         |   |                             | 312                 | 614             |                 |  |
|                                   |            | SBR      | 7                         | 8                               | 0        | -2%        | 78.5                     | E                       |                                  |                                     |                         |   |                             | 312                 | 614             |                 |  |

### AM Peak - 2025 Build-Reduced BAT

| Intersection                          | Control    | Movement              | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |
|---------------------------------------|------------|-----------------------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|
| Roosevelt Blvd & Front St             | Signalized | WBL1                  | 56                        | 55                              | 1        | 1%         | 1.0                      | A                       | 739                              | 16.8                                | B                       | 14.2                                    | B                           | 67                  | 130             |                 |
|                                       |            | WBL2                  | 49                        | 50                              | -1       | -3%        | 3.4                      | A                       |                                  |                                     |                         |   |                             | 67                  | 130             |                 |
|                                       |            | WBT                   | 599                       | 598                             | 0        | 0%         | 17.9                     | B                       |                                  |                                     |                         |   |                             | 67                  | 130             |                 |
|                                       |            | WBR1                  | 21                        | 22                              | -1       | -4%        | 41.9                     | D                       |                                  |                                     |                         |   |                             | 63                  | 357             |                 |
|                                       |            | WBR2                  | 13                        | 13                              | 0        | -3%        | 43.0                     | D                       |                                  |                                     |                         |   |                             | 63                  | 357             |                 |
|                                       |            | NBL1                  | 281                       | 281                             | 0        | 0%         | 139.2                    | F                       |                                  |                                     |                         |   |                             | 380                 | 96              | 232             |
|                                       |            | NBIT                  | 1645                      | 1645                            | 0        | 0%         | 18.0                     | B                       |                                  |                                     |                         |   |                             | 475                 | 48              | 313             |
|                                       |            | NBOT                  | 1278                      | 1275                            | 3        | 0%         | 18.4                     | B                       |                                  |                                     |                         |   |                             | 475                 | 67              | 347             |
|                                       |            | SBIT                  | 2271                      | 2261                            | 10       | 0%         | 3.3                      | A                       |                                  |                                     |                         |   |                             | 315                 | 12              | 101             |
|                                       |            | SBOT                  | 2265                      | 2271                            | -6       | 0%         | 3.9                      | A                       |                                  |                                     |                         |   |                             | 350                 | 26              | 172             |
|                                       |            | SBOR                  | 62                        | 65                              | -3       | -5%        | 9.2                      | A                       |                                  |                                     |                         |   |                             | 350                 | 26              | 172             |
| Roosevelt Blvd & Rising Sun Ave       | Signalized | EGL1 (I)              | 34                        | 31                              | 3        | 9%         | 9.1                      | A                       | 555                              | 49.2                                | D                       | 15.2                                    | B                           | 29                  | 198             |                 |
|                                       |            | EGL2 (O)              | 38                        | 39                              | -1       | -3%        | 11.1                     | B                       |                                  |                                     |                         |   |                             | 29                  | 198             |                 |
|                                       |            | EBT                   | 275                       | 271                             | 4        | 2%         | 54.6                     | D                       |                                  |                                     |                         |   |                             | 155                 | 657             |                 |
|                                       |            | EGR1 (I)              | 110                       | 109                             | 1        | 1%         | 56.2                     | E                       |                                  |                                     |                         |   |                             | 155                 | 657             |                 |
|                                       |            | EGR2 (O)              | 96                        | 96                              | 0        | 0%         | 54.7                     | D                       |                                  |                                     |                         |   |                             | 155                 | 657             |                 |
|                                       |            | WBL1 (I)              | 57                        | 59                              | -2       | -4%        | 13.0                     | B                       |                                  |                                     |                         |   |                             | 60                  | 7               | 165             |
|                                       |            | WBL2 (O)              | 49                        | 47                              | 3        | 5%         | 18.3                     | B                       |                                  |                                     |                         |   |                             | 60                  | 7               | 165             |
|                                       |            | WBT                   | 333                       | 333                             | 0        | 0%         | 42.0                     | D                       |                                  |                                     |                         |   |                             | 60                  | 116             | 486             |
|                                       |            | WBR1 (I)              | 52                        | 53                              | -1       | -2%        | 42.2                     | D                       |                                  |                                     |                         |   |                             | 60                  | 116             | 486             |
|                                       |            | WBR2 (O)              | 14                        | 12                              | 2        | 12%        | 40.6                     | D                       |                                  |                                     |                         |   |                             | 60                  | 116             | 486             |
|                                       |            | NBL1                  | N/A                       | N/A                             | N/A      | N/A        | -                        | N/A                     |                                  |                                     |                         |   |                             | N/A                 | N/A             | N/A             |
|                                       |            | NBIT                  | 1666                      | 1673                            | -6       | 0%         | 15.9                     | B                       |                                  |                                     |                         |   |                             | 245                 | 54              | 194             |
|                                       |            | NBOT                  | 1290                      | 1288                            | 2        | 0%         | 16.0                     | B                       |                                  |                                     |                         |   |                             | 230                 | 66              | 234             |
|                                       |            | SBIL                  | 253                       | 269                             | -16      | -6%        | 20.1                     | C                       |                                  |                                     |                         |   |                             | 250                 | 22              | 191             |
|                                       |            | SBIT                  | 2104                      | 2092                            | 13       | 1%         | 6.4                      | A                       |                                  |                                     |                         |   |                             | 450                 | 22              | 191             |
|                                       |            | SBOT                  | 2182                      | 2193                            | -11      | -1%        | 7.2                      | A                       |                                  |                                     |                         |   |                             | 550                 | 53              | 383             |
|                                       |            | SBOR                  | 161                       | 166                             | -5       | -3%        | 33.4                     | C                       |                                  |                                     |                         |   |                             | 550                 | 53              | 383             |
| Roosevelt Blvd & B St Michigan U-Turn | Signalized | WBR                   | 1                         | 1                               | 0        | 0%         | 0.6                      | A                       | 1756                             | 6.6                                 | A                       | 4.2                                     | A                           | 0                   | 14              |                 |
|                                       |            | NBIU1 (I)             | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 275                 | 43              | 262             |
|                                       |            | NBIU2 (O)             | 161                       | 166                             | -5       | -3%        | 44.0                     | D                       |                                  |                                     |                         |   |                             | 275                 | 43              | 262             |
|                                       |            | NBIT                  | 1591                      | 1590                            | 1        | 0%         | 2.7                      | A                       |                                  |                                     |                         |   |                             | 620                 | 1               | 52              |
|                                       |            | NBOT                  | 1343                      | 1341                            | 2        | 0%         | 3.5                      | A                       |                                  |                                     |                         |   |                             | 620                 | 5               | 69              |
|                                       |            | NBOR                  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 620                 | 5               | 69              |
|                                       |            | SBIT                  | 2357                      | 2360                            | -3       | 0%         | 3.2                      | A                       |                                  |                                     |                         |   |                             | 450                 | 7               | 102             |
|                                       |            | SBOT                  | 2182                      | 2193                            | -11      | 0%         | 3.6                      | A                       |                                  |                                     |                         |   |                             | 450                 | 6               | 171             |
| Roosevelt Blvd & C Street             | Signalized | EGL1 (I)              | 98                        | 85                              | 13       | 13%        | 17.6                     | B                       | 543                              | 44.6                                | D                       | 33.1                                    | C                           | 45                  | 198             |                 |
|                                       |            | EGL2 (O)              | 27                        | 26                              | 1        | 5%         | 24.5                     | C                       |                                  |                                     |                         |   |                             | 45                  | 198             |                 |
|                                       |            | EBT                   | 342                       | 311                             | 32       | 9%         | 51.5                     | D                       |                                  |                                     |                         |   |                             | 166                 | 561             |                 |
|                                       |            | EGR1 (I)              | 67                        | 56                              | 11       | 16%        | 51.0                     | D                       |                                  |                                     |                         |   |                             | 166                 | 561             |                 |
|                                       |            | EGR2 (O)              | 58                        | 52                              | 6        | 10%        | 50.8                     | D                       |                                  |                                     |                         |   |                             | 166                 | 561             |                 |
|                                       |            | WBL1 (I)              | 49                        | 48                              | 2        | 3%         | 8.5                      | A                       |                                  |                                     |                         |   |                             | 3                   | 133             |                 |
|                                       |            | WBL2 (O)              | 43                        | 42                              | 1        | 3%         | 7.1                      | A                       |                                  |                                     |                         |   |                             | 3                   | 133             |                 |
|                                       |            | WBT                   | 350                       | 350                             | 0        | 0%         | 106.4                    | F                       |                                  |                                     |                         |   |                             | 257                 | 705             |                 |
|                                       |            | WBR1 (I)              | 26                        | 25                              | 1        | 2%         | 109.0                    | F                       |                                  |                                     |                         |   |                             | 257                 | 705             |                 |
|                                       |            | WBR2 (O)              | 5                         | 4                               | 1        | 12%        | 126.1                    | F                       |                                  |                                     |                         |   |                             | 257                 | 705             |                 |
|                                       |            | NBL1                  | 4                         | 5                               | -1       | -18%       | 55.0                     | D                       |                                  |                                     |                         |   |                             | 640                 | 170             | 509             |
|                                       |            | NBIT                  | 1587                      | 1580                            | 7        | 0%         | 51.2                     | D                       |                                  |                                     |                         |   |                             | 640                 | 170             | 509             |
|                                       |            | NBOT                  | 1313                      | 1313                            | 0        | 0%         | 53.7                     | D                       |                                  |                                     |                         |   |                             | 640                 | 220             | 646             |
|                                       |            | NBOR                  | 32                        | 33                              | -1       | -3%        | 16.1                     | B                       |                                  |                                     |                         |   |                             | 640                 | 220             | 646             |
|                                       |            | SBIL                  | 197                       | 202                             | -5       | -2%        | 35.5                     | D                       |                                  |                                     |                         |   |                             | 255                 | 57              | 279             |
|                                       |            | SBIT                  | 2112                      | 2123                            | -11      | -1%        | 11.4                     | B                       |                                  |                                     |                         |   |                             | 775                 | 57              | 279             |
|                                       |            | SBOT                  | 2210                      | 2231                            | -21      | -1%        | 15.3                     | B                       |                                  |                                     |                         |   |                             | 785                 | 94              | 533             |
|                                       |            | SBOR                  | 138                       | 143                             | -5       | -3%        | 21.4                     | C                       |                                  |                                     |                         |   |                             | 785                 | 94              | 533             |
| Roosevelt Blvd & Rorer St - D St      | Signalized | EBR (from D St)       | 18                        | 18                              | 0        | 1%         | 1.6                      | A                       | 1585                             | 51.2                                | D                       | 5.6                                     | A                           | 0                   | 30              |                 |
|                                       |            | EBR (from Bingham St) | 111                       | 111                             | 0        | 0%         | 5.0                      | A                       |                                  |                                     |                         |   |                             | 1                   | 80              |                 |
|                                       |            | WBR                   | 47                        | 47                              | 0        | 0%         | 1.7                      | A                       |                                  |                                     |                         |   |                             | 0                   | 36              |                 |
|                                       |            | NBIT                  | 1711                      | 1690                            | 21       | 1%         | 3.1                      | A                       |                                  |                                     |                         |   |                             | 680                 | 4               | 62              |
|                                       |            | NBOT                  | 1344                      | 1344                            | 0        | 0%         | 3.6                      | A                       |                                  |                                     |                         |   |                             | 680                 | 9               | 113             |
|                                       |            | NBOR                  | 1                         | 1                               | 0        | 30%        | 8.9                      | A                       |                                  |                                     |                         |   |                             | 680                 | 9               | 113             |
|                                       |            | SBIT                  | 2309                      | 2320                            | -11      | 0%         | 4.9                      | A                       |                                  |                                     |                         |   |                             | 1150                | 11              | 128             |
|                                       |            | SBOT                  | 2204                      | 2230                            | -26      | -1%        | 9.3                      | A                       |                                  |                                     |                         |   |                             | 1160                | 40              | 342             |
|                                       |            | SBOR (to D St)        | 108                       | 100                             | 8        | 8%         | 9.4                      | A                       |                                  |                                     |                         |   |                             | 1160                | 40              | 342             |
|                                       |            | SBOR (to Bingham St)  | 54                        | 55                              | -1       | -3%        | 7.6                      | A                       |                                  |                                     |                         |   |                             | 1160                | 40              | 342             |
| Roosevelt Blvd & F Street             | Signalized | EGL1 (I)              | 34                        | 34                              | 0        | 0%         | 31.8                     | C                       | 598                              | 98.3                                | F                       | 25.8                                    | C                           | 48                  | 200             |                 |
|                                       |            | EGL2 (O)              | 37                        | 36                              | 1        | 4%         | 25.5                     | C                       |                                  |                                     |                         |   |                             | 48                  | 200             |                 |
|                                       |            | EBT                   | 349                       | 348                             | 1        | 0%         | 106.6                    | F                       |                                  |                                     |                         |   |                             | 311                 | 836             |                 |
|                                       |            | EGR1 (I)              | 99                        | 97                              | 3        | 3%         | 109.5                    | F                       |                                  |                                     |                         |   |                             | 311                 | 836             |                 |
|                                       |            | EGR2 (O)              | 86                        | 84                              | 2        | 2%         | 108.7                    | F                       |                                  |                                     |                         |   |                             | 311                 | 836             |                 |
|                                       |            | WBL1 (I)              | 58                        | 56                              | 2        | 4%         | 7.2                      | A                       |                                  |                                     |                         |   |                             | 52                  | 197             |                 |
|                                       |            | WBL2 (O)              | 50                        | 48                              | 2        | 4%         | 10.7                     | B                       |                                  |                                     |                         |   |                             | 52                  | 197             |                 |
|                                       |            | WBT                   | 378                       | 376                             | 3        | 1%         | 47.0                     | D                       |                                  |                                     |                         |   |                             | 101                 | 427             |                 |
|                                       |            | WBR1 (I)              | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 101                 | 427             |                 |
|                                       |            | WBR2 (O)              | 3                         | 4                               | -1       | -33%       | 38.1                     | D                       |                                  |                                     |                         |   |                             | 101                 | 427             |                 |
|                                       |            | NBL1                  | 137                       | 134                             | 3        | 2%         | 44.6                     | D                       |                                  |                                     |                         |   |                             | 170                 | 134             | 550             |
|                                       |            | NBIT                  | 1636                      | 1624                            | 12       | 1%         | 42.7                     | D                       |                                  |                                     |                         |   |                             | 1275                | 134             | 550             |
|                                       |            | NBOT                  | 1299                      | 1289                            | 10       | 1%         | 0.6                      | A                       |                                  |                                     |                         |   |                             | 1275                | 158             | 620             |
|                                       |            | NBOR                  | 30                        | 30                              | 0        | 1%         | 40.1                     | D                       |                                  |                                     |                         |   |                             | 1275                | 154             | 614             |
|                                       |            | SBIL                  | 192                       | 185                             | 7        | 3%         | 37.3                     | D                       |                                  |                                     |                         |   |                             | 1050                | 81              | 399             |
|                                       |            | SBIT                  | 2373                      | 2394                            | -21      | -          |                          |                         |                                  |                                     |                         |   |                             |                     |                 |                 |

### AM Peak - 2025 Build-Reduced BAT

| Intersection                                       | Control    | Movement  | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|--|------------|-----------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Whitaker Ave (South) - Garland St | Signalized | EBR       | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 0                                | 0.0                                 | A                       | 13.5                                    | B                           | 0                   | 0               | 0               |  |  |
|  |            | WBR1 (I)  | 327                       | 324                             | 3        | 1%         | 43.4                     | D                       | 400                              | 42.7                                | D                       |   |                             | 60                  | 272             |                 |  |  |
|  |            | WBR2 (O)  | 74                        | 76                              | -2       | -2%        | 39.8                     | D                       |                                  |                                     |                         |   |                             | 60                  | 272             |                 |  |  |
|  |            | NBIT      | 1670                      | 1659                            | 11       | 1%         | 14.9                     | B                       |                                  |                                     |                         |   |                             | 1080                | 39              | 279             |  |  |
|  |            | NBOT      | 1339                      | 1334                            | 5        | 0%         | 19.0                     | B                       | 3015                             | 16.7                                | B                       |   |                             | 1080                | 61              | 394             |  |  |
|  |            | NBOR      | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 1080                | 61              | 394             |  |  |
|  |            | SBU1 (I)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 109                 | 405             |                 |  |  |
|  |            | SBU2 (O)  | 5                         | 4                               | 1        | 16%        | 34.9                     | C                       | 781                              | 44.2                                | D                       |   |                             | 109                 | 405             |                 |  |  |
|  |            | SBL1      | 750                       | 777                             | -27      | -4%        | 44.3                     | D                       |                                  |                                     |                         |   |                             | 320                 | 109             | 405             |  |  |
|  |            | SBIT      | 2329                      | 2342                            | -14      | -1%        | 3.0                      | A                       |                                  |                                     |                         |   |                             | 450                 | 23              | 324             |  |  |
|  |            | SBOT      | 2065                      | 2089                            | -24      | -1%        | 3.6                      | A                       | 2111                             | 3.6                                 | A                       |   |                             | 470                 | 3               | 113             |  |  |
|  |            | SBOR      | 0                         | 0                               | N/A      | 0.0        | A                        | 470                     |                                  |                                     |                         |   |                             | 3                   | 113             |                 |  |  |
| Roosevelt Blvd & Whitaker Ave (North) - Adams Ave  | Signalized | EBL1 (I)  | 134                       | 134                             | 0        | 0%         | 1.0                      | A                       | 849                              | 10.8                                | B                       | 18.2                                    | B                           | 0                   | 89              |                 |  |  |
|  |            | EBL2 (O)  | 409                       | 412                             | -3       | -1%        | 1.0                      | A                       |                                  |                                     |                         |   |                             | 0                   | 89              |                 |  |  |
|  |            | EBC1 (I)  | 180                       | 181                             | -1       | -1%        | 29.0                     | C                       |                                  |                                     |                         |   |                             | 59                  | 242             |                 |  |  |
|  |            | EBR2 (O)  | 121                       | 115                             | 6        | 5%         | 28.3                     | C                       | 1985                             | 33.7                                | C                       |   |                             | 59                  | 242             |                 |  |  |
|  |            | NBIU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 77                  | 351             |                 |  |  |
|  |            | NBIU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 77                  | 351             |                 |  |  |
|  |            | NBIL      | 323                       | 323                             | 0        | 0%         | 14.6                     | B                       |                                  |                                     |                         |   |                             | 245                 | 77              | 351             |  |  |
|  |            | NBIT      | 1674                      | 1662                            | 12       | 1%         | 37.4                     | D                       | 1432                             | 31.3                                | C                       |   |                             | 265                 | 224             | 669             |  |  |
|  |            | NBOT      | 1413                      | 1410                            | 3        | 0%         | 31.3                     | C                       |                                  |                                     |                         |   |                             | 290                 | 166             | 661             |  |  |
|  |            | SBIT      | 2904                      | 2943                            | -39      | -1%        | 6.7                      | A                       |                                  |                                     |                         |   |                             | 780                 | 27              | 238             |  |  |
|  |            | SBOT      | 2076                      | 2100                            | -24      | -1%        | 13.1                     | B                       | 2526                             | 14.5                                | B                       |   |                             | 800                 | 61              | 511             |  |  |
|  |            | SBOR      | 392                       | 398                             | -6       | -1%        | 22.2                     | C                       |                                  |                                     |                         |   |                             | 800                 | 61              | 511             |  |  |
| Roosevelt BLvd & Tower Blvd                        | Signalized | EBR       | 43                        | 43                              | 0        | 1%         | 19.3                     | B                       | 43                               | 19.3                                | B                       | 5.7                                     | A                           | 2                   | 68              |                 |  |  |
|  |            | NBIU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 12                  | 131             |                 |  |  |
|  |            | NBIU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 12                  | 130             |                 |  |  |
|  |            | NBIL      | 167                       | 175                             | -8       | -5%        | 31.2                     | C                       | 1804                             | 7.9                                 | A                       |   |                             | 320                 | 16              | 132             |  |  |
|  |            | NBIT      | 1641                      | 1629                            | 12       | 1%         | 5.4                      | A                       |                                  |                                     |                         |   |                             | 950                 | 9               | 205             |  |  |
|  |            | NBOT      | 1822                      | 1765                            | 57       | 3%         | 6.5                      | A                       |                                  |                                     |                         |   |                             | 950                 | 17              | 293             |  |  |
|  |            | SBU1 (I)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 1794                             | 6.5                                 | A                       |   |                             | 200                 | 32              | 281             |  |  |
|  |            | SBU1 (O)  | 159                       | 164                             | -5       | -3%        | 38.2                     | D                       |                                  |                                     |                         |   |                             | 200                 | 32              | 281             |  |  |
|  |            | SBIT      | 2904                      | 2944                            | -40      | -1%        | 3.5                      | A                       |                                  |                                     |                         |   |                             | 580                 | 1               | 77              |  |  |
|  |            | SBOT      | 2425                      | 2464                            | -39      | -2%        | 3.7                      | A                       | 2545                             | 3.6                                 | A                       |   |                             | 580                 | 2               | 152             |  |  |
|  |            | SBOR      | 51                        | 53                              | -2       | -4%        | 3.1                      | A                       |                                  |                                     |                         |   |                             | 580                 | 1               | 152             |  |  |
| Roosevelt Blvd & Langdon St                        | Signalized | EBL1 (I)  | 85                        | 84                              | 1        | 2%         | 1.1                      | A                       | 796                              | 33.0                                | C                       | 15.7                                    | B                           | 1                   | 129             |                 |  |  |
|  |            | EBL2 (O)  | 262                       | 268                             | -6       | -2%        | 6.7                      | A                       |                                  |                                     |                         |   |                             | 5                   | 168             |                 |  |  |
|  |            | EBT       | 347                       | 351                             | -4       | -1%        | 54.0                     | D                       |                                  |                                     |                         |   |                             | 200                 | 86              | 335             |  |  |
|  |            | EBR1 (I)  | 70                        | 65                              | 5        | 7%         | 58.0                     | E                       | 88                               | 48.8                                | D                       |   |                             | 86                  | 335             |                 |  |  |
|  |            | EBR2 (O)  | 28                        | 29                              | -1       | -2%        | 57.6                     | E                       |                                  |                                     |                         |   |                             | 0                   | 0               |                 |  |  |
|  |            | WBL1 (I)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 1684                             | 18.6                                | B                       |   |                             | 0                   | 0               |                 |  |  |
|  |            | WBL2 (O)  | 5                         | 4                               | 1        | 16%        | 11.1                     | B                       |                                  |                                     |                         |   |                             | 200                 | 22              | 153             |  |  |
|  |            | WBT       | 9                         | 9                               | 0        | 1%         | 52.7                     | D                       |                                  |                                     |                         |   |                             | 22                  | 153             |                 |  |  |
|  |            | WBR1 (I)  | 50                        | 50                              | 0        | 0%         | 48.0                     | D                       | 3170                             | 7.0                                 | A                       |   |                             | 22                  | 153             |                 |  |  |
|  |            | WBR2 (O)  | 26                        | 25                              | 1        | 3%         | 55.2                     | E                       |                                  |                                     |                         |   |                             | 190                 | 2               | 26              |  |  |
|  |            | NBLU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 580                 | 61              | 370             |  |  |
|  |            | NBLU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 1962                             | 21.6                                | C                       |   |                             | 600                 | 140             | 632             |  |  |
|  |            | NBIT      | 1694                      | 1680                            | 14       | 1%         | 18.5                     | B                       |                                  |                                     |                         |   |                             | 600                 | 140             | 632             |  |  |
|  |            | NBOT      | 1834                      | 1841                            | -6       | 0%         | 21.0                     | C                       |                                  |                                     |                         |   |                             | 190                 | 2               | 26              |  |  |
|  |            | NBOR      | 88                        | 93                              | -5       | -5%        | 33.7                     | C                       | 3170                             | 7.0                                 | A                       |   |                             | 580                 | 61              | 370             |  |  |
|  |            | SBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | 400                 | 32              | 288             |  |  |
|  |            | SBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | 415                 | 95              | 519             |  |  |
|  |            | SBL1      | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       | 2657                             | 13.6                                | B                       |   |                             | 415                 | 95              | 519             |  |  |
|  |            | SBIT      | 3124                      | 3170                            | -46      | -1%        | 7.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |  |  |
|  |            | SBOT      | 2313                      | 2355                            | -43      | -2%        | 11.6                     | B                       |                                  |                                     |                         |   |                             |                     |                 |                 |  |  |
|  |            | SBOR      | 272                       | 275                             | -3       | -1%        | 30.4                     | C                       | 1813                             | 15.9                                | B                       |   |                             |                     |                 |                 |  |  |
| Roosevelt Blvd & Summerdale Ave - Adams Ave        | Signalized | ERL1 (I)  | 5                         | 6                               | -1       | -28%       | 21.6                     | C                       | 1062                             | 82.7                                | F                       | 35.4                                    | D                           | 1                   | 74              |                 |  |  |
|  |            | ERL2 (O)  | 7                         | 7                               | 0        | -4%        | 19.6                     | B                       |                                  |                                     |                         |   |                             | 1700                | 250             | 1171            |  |  |
|  |            | EBT       | 323                       | 389                             | -66      | -20%       | 76.9                     | E                       |                                  |                                     |                         |   |                             | 300                 | 250             | 1171            |  |  |
|  |            | EBR1 (I)  | 281                       | 327                             | -46      | -17%       | 83.7                     | F                       | 784                              | 55.1                                | E                       |   |                             | 300                 | 250             | 1171            |  |  |
|  |            | EBR2 (O)  | 282                       | 333                             | -51      | -18%       | 90.9                     | F                       |                                  |                                     |                         |   |                             | 730                 | 432             | 774             |  |  |
|  |            | WBL1 (I)  | 247                       | 239                             | 8        | 3%         | 21.4                     | C                       |                                  |                                     |                         |   |                             | 730                 | 432             | 774             |  |  |
|  |            | WBL2 (O)  | 337                       | 320                             | 17       | 5%         | 23.0                     | C                       |                                  |                                     |                         |   |                             | 120                 | 141             | 747             |  |  |
|  |            | WBT       | 142                       | 142                             | 0        | 0%         | 135.2                    | F                       | 2166                             | 24.0                                | C                       |   |                             | 730                 | 108             | 421             |  |  |
|  |            | WBR1 (I)  | 43                        | 46                              | -3       | -7%        | 149.9                    | F                       |                                  |                                     |                         |   |                             | 730                 | 465             | 809             |  |  |
|  |            | WBR2 (O)  | 28                        | 27                              | 1        | 2%         | 150.9                    | F                       |                                  |                                     |                         |   |                             |                     |                 |                 |  |  |
|  |            | NBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       | 2602                             | 16.5                                | B                       |   |                             |                     |                 |                 |  |  |
|  |            | NBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             |                     |                 |                 |  |  |
|  |            | NBIL      | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             |                     |                 |                 |  |  |
|  |            | NBIT      | 1829                      | 1813                            | 16       | 1%         | 15.9                     | B                       | 2166                             | 24.0                                | C                       |   |                             |                     |                 |                 |  |  |
|  |            | NBOT      | 1379                      | 1393                            | -13      | -1%        | 18.5                     | B                       |                                  |                                     |                         |   |                             |                     |                 |                 |  |  |
|  |            | NBOR      | 743                       | 745                             | -2       | 0%         | 34.2                     | C                       |                                  |                                     |                         |   |                             |                     |                 |                 |  |  |
|  |            | SBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       | 2312                             | 54.6                                | D                       |   |                             |                     |                 |                 |  |  |
|  |            | SBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             |                     |                 |                 |  |  |
|  |            | SBL1      | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             |                     |                 |                 |  |  |
|  |            | SBIT      | 2596</td                  |                                 |          |            |                          |                         |                                  |                                     |                         |   |                             |                     |                 |                 |  |  |

### AM Peak - 2025 Build-Reduced BAT

| Intersection                   | Control      | Movement           | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |
|--------------------------------|--------------|--------------------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|
| Roosevelt Blvd & Pratt Street  | Signalized   | E BL1 (I)          | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 262                              | 63.2                                | E                       | 27.0                                    | C                           | 47                  | 172             |                 |  |
|                                |              | E BL2 (O)          | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 47                  | 172             |                 |  |
|                                |              | E BT               | 108                       | 107                             | 1        | 1%         | 62.9                     | E                       |                                  |                                     |                         |   |                             | 91                  | 394             |                 |  |
|                                |              | E BR1 (I)          | 85                        | 86                              | -1       | -2%        | 64.1                     | E                       |                                  |                                     |                         |   |                             | 91                  | 394             |                 |  |
|                                |              | E BR2 (O)          | 66                        | 65                              | 2        | 2%         | 62.5                     | E                       |                                  |                                     |                         |   |                             | 91                  | 394             |                 |  |
|                                |              | W BL1 (I)          | 110                       | 112                             | -2       | -2%        | 2.7                      | A                       |                                  |                                     |                         |   |                             | 8                   | 191             |                 |  |
|                                |              | W BL2 (O)          | 87                        | 92                              | -5       | -6%        | 5.7                      | A                       |                                  |                                     |                         |   |                             | 8                   | 191             |                 |  |
|                                |              | W BT               | 307                       | 310                             | -3       | -1%        | 112.7                    | F                       |                                  |                                     |                         |   |                             | 262                 | 646             |                 |  |
|                                |              | W BR1 (I)          | 21                        | 22                              | -1       | -2%        | 105.2                    | F                       |                                  |                                     |                         |   |                             | 262                 | 646             |                 |  |
|                                |              | W BR2 (O)          | 3                         | 3                               | 0        | -10%       | 125.5                    | F                       |                                  |                                     |                         |   |                             | 262                 | 646             |                 |  |
|                                |              | N BIL              | 1                         | 2                               | -1       | -50%       | 14.2                     | B                       | 1696                             | 20.9                                | C                       |   |                             | 140                 | 53              |                 |  |
|                                |              | N BIT              | 1713                      | 1694                            | 19       | 1%         | 20.9                     | C                       |                                  |                                     |                         |   |                             | 1140                | 53              |                 |  |
|                                |              | N BOT              | 1162                      | 1155                            | 7        | 1%         | 18.7                     | B                       |                                  |                                     |                         |   |                             | 1140                | 68              |                 |  |
|                                |              | N BOR              | 231                       | 235                             | -4       | -2%        | 31.9                     | C                       |                                  |                                     |                         |   |                             | 1140                | 68              |                 |  |
|                                |              | S BIL              | 89                        | 90                              | -1       | -2%        | 37.6                     | D                       |                                  |                                     |                         |   |                             | 500                 | 88              |                 |  |
|                                |              | S BIT              | 2489                      | 2477                            | 12       | 0%         | 23.2                     | C                       |                                  |                                     |                         |   |                             | 500                 | 465             |                 |  |
|                                |              | S BOT              | 1578                      | 1585                            | -7       | 0%         | 23.2                     | C                       |                                  |                                     |                         |   |                             | 500                 | 84              |                 |  |
|                                |              | S BOR              | 1                         | 1                               | 0        | -20%       | 15.5                     | B                       |                                  |                                     |                         |   |                             | 500                 | 618             |                 |  |
|                                |              | E BL               | 137                       | 138                             | -2       | -1%        | 38.1                     | D                       |                                  |                                     |                         |   |                             | 49                  | 307             |                 |  |
|                                |              | E BT               | 202                       | 199                             | 3        | 1%         | 33.5                     | C                       |                                  |                                     |                         |   |                             | 49                  | 307             |                 |  |
| Adams Ave & Ramona Ave         | Signalized   | E BR               | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 337                              | 35.4                                | D                       | 33.5                                    | C                           | 39                  | 289             |                 |  |
|                                |              | W BL               | 2                         | 2                               | 0        | 0%         | 41.7                     | D                       |                                  |                                     |                         |   |                             | 39                  | 246             |                 |  |
|                                |              | W BT               | 201                       | 203                             | -2       | -1%        | 48.9                     | D                       |                                  |                                     |                         |   |                             | 50                  | 264             |                 |  |
|                                |              | W BR               | 48                        | 45                              | 3        | 6%         | 40.9                     | D                       |                                  |                                     |                         |   |                             | 99                  | 331             |                 |  |
|                                |              | N BL               | 74                        | 77                              | -3       | -4%        | 95.0                     | F                       |                                  |                                     |                         |   |                             | 99                  | 331             |                 |  |
|                                |              | N BT               | 611                       | 599                             | 12       | 2%         | 42.9                     | D                       |                                  |                                     |                         |   |                             | 141                 | 388             |                 |  |
|                                |              | N BR               | 32                        | 29                              | 2        | 7%         | 29.9                     | C                       | 713                              | 48.0                                | D                       | 33.5                                    | C                           | 83                  | 492             |                 |  |
|                                |              | S BL               | 5                         | 5                               | 0        | 3%         | 31.4                     | C                       |                                  |                                     |                         |   |                             | 83                  | 492             |                 |  |
|                                |              | S BT               | 563                       | 598                             | -36      | -6%        | 27.9                     | C                       |                                  |                                     |                         |   |                             | 83                  | 492             |                 |  |
|                                |              | S BR               | 486                       | 513                             | -27      | -6%        | 12.2                     | B                       |                                  |                                     |                         |   |                             | 83                  | 492             |                 |  |
| Summerdale Ave and Godfrey Ave | Unsignalized | E BT               | 12                        | 12                              | 0        | -4%        | 26.7                     | D                       | 289                              | 21.6                                | C                       | 24.8                                    | C                           | 31                  | 234             |                 |  |
|                                |              | E BR               | 277                       | 277                             | 0        | 0%         | 21.3                     | C                       |                                  |                                     |                         |   |                             | 36                  | 236             |                 |  |
|                                |              | W BL               | 11                        | 13                              | -2       | -22%       | 21.6                     | C                       |                                  |                                     |                         |   |                             | 1                   | 50              |                 |  |
|                                |              | W BT               | 5                         | 6                               | 0        | -7%        | 17.3                     | C                       |                                  |                                     |                         |   |                             | 1                   | 70              |                 |  |
|                                |              | W BR to Pratt      | 3                         | 3                               | 0        | 14%        | 23.4                     | C                       |                                  |                                     |                         |   |                             | 1                   | 70              |                 |  |
|                                |              | W BR to Summerdale | 5                         | 5                               | 0        | 5%         | 25.3                     | D                       |                                  |                                     |                         |   |                             | 28                  | 334             |                 |  |
|                                |              | N BL               | 108                       | 121                             | -12      | -12%       | 20.4                     | C                       | 529                              | 26.3                                | D                       | 33.5                                    | C                           | 54                  | 428             |                 |  |
|                                |              | N BT               | 362                       | 393                             | -31      | -9%        | 28.4                     | D                       |                                  |                                     |                         |   |                             | 36                  | 372             |                 |  |
|                                |              | N BR               | 13                        | 15                              | -3       | -21%       | 17.7                     | C                       |                                  |                                     |                         |   |                             | 96                  | 572             |                 |  |
|                                |              | S BL               | 11                        | 10                              | 1        | 7%         | 31.8                     | D                       |                                  |                                     |                         |   |                             | 96                  | 572             |                 |  |
|                                |              | S BT               | 804                       | 739                             | 64       | 8%         | 25.0                     | C                       |                                  |                                     |                         |   |                             | 113                 | 604             |                 |  |
|                                |              | S BR               | 3                         | 2                               | 1        | 24%        | 12.7                     | B                       |                                  |                                     |                         |   |                             | 4                   | 70              |                 |  |
| Summerdale Ave and Pratt St    | Signalized   | E BL               | 3                         | 3                               | 0        | -8%        | 16.4                     | B                       | 81                               | 19.2                                | B                       | 25.6                                    | C                           | 6                   | 128             |                 |  |
|                                |              | E BT               | 79                        | 78                              | 1        | 1%         | 19.3                     | B                       |                                  |                                     |                         |   |                             | 6                   | 128             |                 |  |
|                                |              | W BL to Summerdale | 30                        | 27                              | 3        | 11%        | 25.4                     | C                       |                                  |                                     |                         |   |                             | 12                  | 187             |                 |  |
|                                |              | W BL to Godfrey    | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 12                  | 187             |                 |  |
|                                |              | W BT               | 50                        | 42                              | 9        | 17%        | 25.0                     | C                       |                                  |                                     |                         |   |                             | 12                  | 187             |                 |  |
|                                |              | W BR               | 49                        | 41                              | 9        | 17%        | 21.0                     | C                       |                                  |                                     |                         |   |                             | 19                  | 223             |                 |  |
|                                |              | N BT               | 358                       | 393                             | -35      | -10%       | 28.4                     | C                       | 396                              | 28.4                                | C                       | 25.6                                    | C                           | 54                  | 428             |                 |  |
|                                |              | N BR               | 4                         | 2                               | 2        | 45%        | 26.2                     | C                       |                                  |                                     |                         |   |                             | 64                  | 460             |                 |  |
|                                |              | S BL               | 35                        | 33                              | 2        | 5%         | 29.3                     | C                       |                                  |                                     |                         |   |                             | 96                  | 572             |                 |  |
|                                |              | S BT               | 784                       | 739                             | 44       | 6%         | 25.0                     | C                       |                                  |                                     |                         |   |                             | 96                  | 572             |                 |  |
|                                |              | S BR               | 3                         | 2                               | 1        | 24%        | 12.7                     | B                       |                                  |                                     |                         |   |                             | 113                 | 604             |                 |  |
|                                |              | E BL               | 4                         | 4                               | 1        | 14%        | 19.9                     | B                       |                                  |                                     |                         |   |                             | 4                   | 70              |                 |  |
| Summerdale Ave and Bridge St   | Signalized   | E BT               | 41                        | 42                              | -1       | -2%        | 14.2                     | B                       | 53                               | 14.7                                | B                       | 25.9                                    | C                           | 4                   | 70              |                 |  |
|                                |              | E BR               | 8                         | 8                               | 1        | 11%        | 15.1                     | B                       |                                  |                                     |                         |   |                             | 4                   | 70              |                 |  |
|                                |              | W BL               | 37                        | 35                              | 1        | 4%         | 17.2                     | B                       |                                  |                                     |                         |   |                             | 15                  | 145             |                 |  |
|                                |              | W BT               | 96                        | 95                              | 1        | 1%         | 17.2                     | B                       |                                  |                                     |                         |   |                             | 15                  | 145             |                 |  |
|                                |              | W BR               | 44                        | 45                              | -1       | -3%        | 20.0                     | B                       |                                  |                                     |                         |   |                             | 15                  | 145             |                 |  |
|                                |              | N BL               | 11                        | 12                              | -1       | -10%       | 38.0                     | D                       | 444                              | 30.6                                | C                       | 38.1                                    | D                           | 65                  | 382             |                 |  |
|                                |              | N BT               | 380                       | 404                             | -24      | -6%        | 30.9                     | C                       |                                  |                                     |                         |   |                             | 65                  | 382             |                 |  |
|                                |              | N BR               | 23                        | 26                              | -3       | -12%       | 22.6                     | C                       |                                  |                                     |                         |   |                             | 65                  | 382             |                 |  |
|                                |              | S BL               | 68                        | 68                              | 1        | 1%         | 27.0                     | C                       |                                  |                                     |                         |   |                             | 105                 | 551             |                 |  |
|                                |              | S BT               | 776                       | 742                             | 35       | 4%         | 25.7                     | C                       |                                  |                                     |                         |   |                             | 105                 | 551             |                 |  |
|                                |              | S BR               | 6                         | 5                               | 1        | 19%        | 18.4                     | B                       |                                  |                                     |                         |   |                             | 105                 | 551             |                 |  |
| Summerdale Ave and Sanger St   | Signalized   | E BL               | 24                        | 23                              | 1        | 6%         | 22.4                     | C                       | 65                               | 17.2                                | B                       | 38.1                                    | D                           | 4                   | 80              |                 |  |
|                                |              | E BT               | 30                        | 33                              | -3       | -8%        | 15.0                     | B                       |                                  |                                     |                         |   |                             | 4                   | 80              |                 |  |
|                                |              | E BR               | 11                        | 9                               | 1        | 10%        | 12.4                     | B                       |                                  |                                     |                         |   |                             | 10                  | 112             |                 |  |
|                                |              | W BL               | 6                         | 5                               | 1        | 17%        | 17.4                     | B                       |                                  |                                     |                         |   |                             | 4                   | 75              |                 |  |
|                                |              | W BT               | 44                        | 45                              | -1       | -3%        | 15.7                     | B                       |                                  |                                     |                         |   |                             | 9                   | 104             |                 |  |
|                                |              | W BR               | 13                        | 13                              | 0        | 0%         | 13.8                     | B                       | 63                               | 15.5                                | B                       | 38.1                                    | D                           | 145                 | 521             |                 |  |
|                                |              | N BL               | 21                        | 22                              | -1       | -6%        | 52.7                     | D                       |                                  |                                     |                         |   |                             | 145                 | 521             |                 |  |
|                                |              | N BT               | 402                       | 415                             | -13      | -3%        | 54.5                     | D                       | 453                              | 54.2                                | D                       | 38.1                                    | D                           | 166                 | 554             |                 |  |
|                                |              | N BR               | 13                        | 13                              | -1       | -5%        | 45.0                     | D                       |                                  |                                     |                         |   |                             | 152                 | 597             |                 |  |
|                                |              | S BL               | 40                        | 38                              | 2        | 4%         | 37.8                     | D                       |                                  |                                     |                         |   |                             | 152                 | 597             |                 |  |
|                                |              | S BT               | 814                       | 779                             | 35       | 4%         | 32.7                     | C                       |                                  |                                     |                         |   |                             | 173                 | 630             |                 |  |
|                                |              | S BR               | 27                        | 25                              | 2        | 9%         | 29.7                     | C                       |                                  |                                     |                         |   |                             |                     |                 |                 |  |

### AM Peak - 2025 Build-Reduced BAT

| Intersection                      | Control    | Movement | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |
|-----------------------------------|------------|----------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|
| Summerdale Ave and Cheltenham Ave | Signalized | EBL      | 7                         | 7                               | 0        | 2%         | 22.0                     | C                       | 29                               | 15.8                                | B                       | 50.9                                    | D                           | 2                   | 46              |                 |  |
|                                   |            | EBT      | 18                        | 18                              | 0        | 0%         | 13.6                     | B                       |                                  |                                     |                         |   |                             | 2                   | 46              |                 |  |
|                                   |            | EBR      | 4                         | 4                               | 0        | -2%        | 14.6                     | B                       |                                  |                                     |                         |   |                             | 2                   | 46              |                 |  |
|                                   |            | WBL      | 12                        | 11                              | 0        | 1%         | 16.6                     | B                       | 45                               | 17.2                                | B                       |   |                             | 3                   | 60              |                 |  |
|                                   |            | WBT      | 26                        | 27                              | -1       | -2%        | 15.7                     | B                       |                                  |                                     |                         |   |                             | 3                   | 60              |                 |  |
|                                   |            | WBR      | 7                         | 7                               | 1        | 7%         | 24.2                     | C                       |                                  |                                     |                         |   |                             | 3                   | 60              |                 |  |
|                                   |            | NBL      | 5                         | 5                               | 0        | 3%         | 69.2                     | E                       | 445                              | 70.4                                | E                       |   |                             | 190                 | 534             |                 |  |
|                                   |            | NBT      | 419                       | 424                             | -5       | -1%        | 70.5                     | E                       |                                  |                                     |                         |   |                             | 190                 | 534             |                 |  |
|                                   |            | NBR      | 14                        | 14                              | 0        | 0%         | 67.0                     | E                       |                                  |                                     |                         |   |                             | 190                 | 534             |                 |  |
|                                   |            | SLB      | 24                        | 25                              | 0        | -1%        | 46.7                     | D                       | 870                              | 44.0                                | D                       |   |                             | 229                 | 702             |                 |  |
|                                   |            | SBT      | 865                       | 828                             | 37       | 4%         | 43.9                     | D                       |                                  |                                     |                         |   |                             | 229                 | 702             |                 |  |
|                                   |            | SBR      | 17                        | 15                              | 2        | 14%        | 42.0                     | D                       |                                  |                                     |                         |   |                             | 229                 | 702             |                 |  |
| Summerdale Ave and Oxford Ave     | Signalized | EBL      | 22                        | 21                              | 1        | 4%         | 22.2                     | C                       | 608                              | 18.8                                | B                       | 64.1                                    | E                           | 47                  | 421             |                 |  |
|                                   |            | EBT      | 317                       | 309                             | 8        | 3%         | 18.1                     | B                       |                                  |                                     |                         |   |                             | 47                  | 421             |                 |  |
|                                   |            | EBR      | 270                       | 275                             | -5       | -2%        | 19.4                     | B                       |                                  |                                     |                         |   |                             | 47                  | 421             |                 |  |
|                                   |            | WBL      | 4                         | 4                               | 1        | 14%        | 26.8                     | C                       | 376                              | 12.8                                | B                       |   |                             | 18                  | 207             |                 |  |
|                                   |            | WBT      | 357                       | 356                             | 1        | 0%         | 12.6                     | B                       |                                  |                                     |                         |   |                             | 18                  | 207             |                 |  |
|                                   |            | WBR      | 17                        | 17                              | 0        | -1%        | 12.5                     | B                       |                                  |                                     |                         |   |                             | 18                  | 207             |                 |  |
|                                   |            | NBL      | 138                       | 132                             | 5        | 4%         | 197.0                    | F                       | 412                              | 149.0                               | F                       |   |                             | 377                 | 688             |                 |  |
|                                   |            | NBT      | 282                       | 278                             | 4        | 2%         | 126.3                    | F                       |                                  |                                     |                         |   |                             | 377                 | 688             |                 |  |
|                                   |            | NBR      | 0                         | 0                               | 0        | N/A        | 44.7                     | D                       |                                  |                                     |                         |   |                             | 377                 | 688             |                 |  |
|                                   |            | SLB      | 63                        | 58                              | 6        | 9%         | 86.6                     | F                       | 635                              | 82.7                                | F                       |   |                             | 343                 | 614             |                 |  |
|                                   |            | SBT      | 612                       | 569                             | 43       | 7%         | 82.2                     | F                       |                                  |                                     |                         |   |                             | 343                 | 614             |                 |  |
|                                   |            | SBR      | 7                         | 8                               | 0        | -3%        | 89.2                     | F                       |                                  |                                     |                         |   |                             | 343                 | 614             |                 |  |

### AM Peak - 2025 Build-Access Change

| Intersection                          | Control    | Movement              | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |
|---------------------------------------|------------|-----------------------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|
| Roosevelt Blvd & Front St             | Signalized | WBL1                  | 56                        | 55                              | 1        | 1%         | 1.0                      | A                       | 739                              | 16.9                                | B                       | 14.1                                    | B                           | 66                  | 123             |                 |
|                                       |            | WBL2                  | 49                        | 50                              | -1       | -3%        | 3.2                      | A                       |                                  |                                     |                         |   |                             | 66                  | 123             |                 |
|                                       |            | WBT                   | 599                       | 598                             | 1        | 0%         | 18.0                     | B                       |                                  |                                     |                         |   |                             | 66                  | 123             |                 |
|                                       |            | WBR1                  | 21                        | 22                              | -1       | -4%        | 42.2                     | D                       |                                  |                                     |                         |   |                             | 63                  | 348             |                 |
|                                       |            | WBR2                  | 13                        | 13                              | 0        | -3%        | 43.0                     | D                       |                                  |                                     |                         |   |                             | 63                  | 348             |                 |
|                                       |            | NBL1                  | 281                       | 280                             | 0        | 0%         | 136.1                    | F                       |                                  |                                     |                         |   |                             | 380                 | 93              | 231             |
|                                       |            | NBIT                  | 1645                      | 1645                            | 1        | 0%         | 18.0                     | B                       |                                  |                                     |                         |   |                             | 475                 | 48              | 310             |
|                                       |            | NBOT                  | 1278                      | 1275                            | 3        | 0%         | 18.4                     | B                       |                                  |                                     |                         |   |                             | 475                 | 67              | 346             |
|                                       |            | SBIT                  | 2271                      | 2250                            | 21       | 1%         | 3.2                      | A                       |                                  |                                     |                         |   |                             | 315                 | 11              | 101             |
|                                       |            | SBOT                  | 2265                      | 2269                            | -4       | 0%         | 3.9                      | A                       |                                  |                                     |                         |   |                             | 350                 | 26              | 164             |
|                                       |            | SBOR                  | 62                        | 66                              | -4       | -6%        | 7.6                      | A                       |                                  |                                     |                         |   |                             | 350                 | 26              | 164             |
| Roosevelt Blvd & Rising Sun Ave       | Signalized | EGL1 (I)              | 34                        | 31                              | 3        | 9%         | 8.7                      | A                       | 554                              | 49.3                                | D                       | 14.9                                    | B                           | 29                  | 192             |                 |
|                                       |            | EGL2 (O)              | 38                        | 39                              | -1       | -3%        | 11.3                     | B                       |                                  |                                     |                         |   |                             | 29                  | 192             |                 |
|                                       |            | EBT                   | 275                       | 271                             | 4        | 2%         | 54.6                     | D                       |                                  |                                     |                         |   |                             | 155                 | 655             |                 |
|                                       |            | EGR1 (I)              | 110                       | 109                             | 1        | 1%         | 56.6                     | E                       |                                  |                                     |                         |   |                             | 155                 | 655             |                 |
|                                       |            | EGR2 (O)              | 96                        | 96                              | 0        | 0%         | 54.5                     | D                       |                                  |                                     |                         |   |                             | 155                 | 655             |                 |
|                                       |            | WBL1 (I)              | 57                        | 59                              | -2       | -4%        | 12.5                     | B                       |                                  |                                     |                         |   |                             | 60                  | 7               | 177             |
|                                       |            | WBL2 (O)              | 49                        | 47                              | 3        | 5%         | 18.1                     | B                       |                                  |                                     |                         |   |                             | 60                  | 7               | 177             |
|                                       |            | WBT                   | 333                       | 333                             | 0        | 0%         | 41.7                     | D                       |                                  |                                     |                         |   |                             | 60                  | 113             | 479             |
|                                       |            | WBR1 (I)              | 52                        | 53                              | -1       | -2%        | 40.9                     | D                       |                                  |                                     |                         |   |                             | 60                  | 113             | 479             |
|                                       |            | WBR2 (O)              | 14                        | 12                              | 2        | 12%        | 39.2                     | D                       |                                  |                                     |                         |   |                             | 60                  | 113             | 479             |
|                                       |            | NBL1                  | N/A                       | N/A                             | N/A      | N/A        | -                        | N/A                     |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |
|                                       |            | NBIT                  | 1666                      | 1673                            | -6       | 0%         | 15.8                     | B                       |                                  |                                     |                         |   |                             | 245                 | 54              | 193             |
|                                       |            | NBOT                  | 1290                      | 1288                            | 2        | 0%         | 16.0                     | B                       |                                  |                                     |                         |   |                             | 230                 | 66              | 235             |
|                                       |            | SBIL                  | 253                       | 268                             | -15      | -6%        | 20.1                     | C                       |                                  |                                     |                         |   |                             | 250                 | 21              | 200             |
|                                       |            | SBIT                  | 2104                      | 2080                            | 24       | 1%         | 6.1                      | A                       |                                  |                                     |                         |   |                             | 450                 | 21              | 200             |
|                                       |            | SBOT                  | 2182                      | 2193                            | -11      | 0%         | 6.7                      | A                       |                                  |                                     |                         |   |                             | 550                 | 50              | 326             |
|                                       |            | SBOR                  | 161                       | 166                             | -5       | -3%        | 33.2                     | C                       |                                  |                                     |                         |   |                             | 550                 | 50              | 326             |
| Roosevelt Blvd & B St Michigan U-Turn | Signalized | WBR                   | 1                         | 1                               | 0        | 0%         | 0.6                      | A                       | 1756                             | 6.6                                 | A                       | 4.1                                     | A                           | 0                   | 14              |                 |
|                                       |            | NBIU1 (I)             | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 275                 | 43              | 261             |
|                                       |            | NBIU2 (O)             | 161                       | 166                             | -5       | -3%        | 44.0                     | D                       |                                  |                                     |                         |   |                             | 275                 | 43              | 261             |
|                                       |            | NBIT                  | 1591                      | 1590                            | 1        | 0%         | 2.7                      | A                       |                                  |                                     |                         |   |                             | 620                 | 1               | 48              |
|                                       |            | NBOT                  | 1343                      | 1340                            | 3        | 0%         | 3.6                      | A                       |                                  |                                     |                         |   |                             | 620                 | 6               | 72              |
|                                       |            | NBOR                  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 620                 | 6               | 72              |
|                                       |            | SBIT                  | 2357                      | 2348                            | 9        | 0%         | 3.2                      | A                       |                                  |                                     |                         |   |                             | 450                 | 7               | 100             |
|                                       |            | SBOT                  | 2182                      | 2193                            | -11      | -1%        | 3.5                      | A                       |                                  |                                     |                         |   |                             | 450                 | 6               | 128             |
| Roosevelt Blvd & C Street             | Signalized | EGL1 (I)              | 98                        | 85                              | 14       | 14%        | 16.7                     | B                       | 541                              | 45.7                                | D                       | 33.0                                    | C                           | 44                  | 203             |                 |
|                                       |            | EGL2 (O)              | 27                        | 26                              | 1        | 4%         | 23.0                     | C                       |                                  |                                     |                         |   |                             | 44                  | 203             |                 |
|                                       |            | EBT                   | 342                       | 310                             | 32       | 9%         | 53.2                     | D                       |                                  |                                     |                         |   |                             | 169                 | 540             |                 |
|                                       |            | EGR1 (I)              | 67                        | 56                              | 11       | 16%        | 52.8                     | D                       |                                  |                                     |                         |   |                             | 169                 | 540             |                 |
|                                       |            | EGR2 (O)              | 58                        | 53                              | 6        | 9%         | 51.7                     | D                       |                                  |                                     |                         |   |                             | 169                 | 540             |                 |
|                                       |            | WBL1 (I)              | 49                        | 47                              | 2        | 5%         | 8.1                      | A                       |                                  |                                     |                         |   |                             | 3                   | 122             |                 |
|                                       |            | WBL2 (O)              | 43                        | 41                              | 2        | 4%         | 7.5                      | A                       |                                  |                                     |                         |   |                             | 3                   | 122             |                 |
|                                       |            | WBT                   | 350                       | 346                             | 4        | 1%         | 112.3                    | F                       |                                  |                                     |                         |   |                             | 274                 | 744             |                 |
|                                       |            | WBR1 (I)              | 26                        | 25                              | 1        | 4%         | 112.9                    | F                       |                                  |                                     |                         |   |                             | 274                 | 744             |                 |
|                                       |            | WBR2 (O)              | 5                         | 4                               | 1        | 12%        | 136.5                    | F                       |                                  |                                     |                         |   |                             | 274                 | 744             |                 |
|                                       |            | NBL1                  | 4                         | 5                               | -1       | -18%       | 54.8                     | D                       |                                  |                                     |                         |   |                             | 640                 | 170             | 512             |
|                                       |            | NBIT                  | 1587                      | 1581                            | 7        | 0%         | 51.2                     | D                       |                                  |                                     |                         |   |                             | 640                 | 170             | 512             |
|                                       |            | NBOT                  | 1313                      | 1313                            | 0        | 0%         | 53.7                     | D                       |                                  |                                     |                         |   |                             | 640                 | 223             | 650             |
|                                       |            | NBOR                  | 32                        | 33                              | -1       | -3%        | 47.0                     | D                       |                                  |                                     |                         |   |                             | 640                 | 223             | 650             |
|                                       |            | SBIL                  | 197                       | 200                             | -3       | -1%        | 33.0                     | C                       |                                  |                                     |                         |   |                             | 255                 | 51              | 244             |
|                                       |            | SBIT                  | 2112                      | 2111                            | 1        | 0%         | 10.3                     | B                       |                                  |                                     |                         |   |                             | 775                 | 51              | 244             |
|                                       |            | SBOT                  | 2210                      | 2232                            | -22      | -1%        | 14.4                     | B                       |                                  |                                     |                         |   |                             | 785                 | 88              | 578             |
|                                       |            | SBOR                  | 138                       | 142                             | -4       | -3%        | 21.6                     | C                       |                                  |                                     |                         |   |                             | 785                 | 88              | 578             |
| Roosevelt Blvd & Rorer St - D St      | Signalized | EBR (from D St)       | 18                        | 18                              | 0        | 1%         | 1.7                      | A                       | 1585                             | 51.2                                | D                       | 5.6                                     | A                           | 0                   | 30              |                 |
|                                       |            | EBR (from Bingham St) | 111                       | 111                             | 0        | 0%         | 4.9                      | A                       |                                  |                                     |                         |   |                             | 1                   | 79              |                 |
|                                       |            | WBR                   | 47                        | 47                              | 0        | 0%         | 1.8                      | A                       |                                  |                                     |                         |   |                             | 0                   | 37              |                 |
|                                       |            | NBIT                  | 1711                      | 1690                            | 21       | 1%         | 3.1                      | A                       |                                  |                                     |                         |   |                             | 680                 | 4               | 58              |
|                                       |            | NBOT                  | 1344                      | 1343                            | 1        | 0%         | 3.6                      | A                       |                                  |                                     |                         |   |                             | 680                 | 9               | 123             |
|                                       |            | NBOR                  | 1                         | 1                               | 0        | 30%        | 8.8                      | A                       |                                  |                                     |                         |   |                             | 680                 | 9               | 123             |
|                                       |            | SBIT                  | 2309                      | 2312                            | -3       | 0%         | 4.9                      | A                       |                                  |                                     |                         |   |                             | 1150                | 11              | 129             |
|                                       |            | SBOT                  | 2204                      | 2228                            | -24      | -1%        | 9.5                      | A                       |                                  |                                     |                         |   |                             | 1160                | 42              | 364             |
|                                       |            | SBOR (to D St)        | 108                       | 101                             | 7        | 7%         | 8.6                      | A                       |                                  |                                     |                         |   |                             | 1160                | 42              | 364             |
|                                       |            | SBOR (to Bingham St)  | 54                        | 56                              | -2       | -3%        | 7.8                      | A                       |                                  |                                     |                         |   |                             | 1160                | 42              | 364             |
| Roosevelt Blvd & F Street             | Signalized | EGL1 (I)              | 34                        | 33                              | 1        | 2%         | 31.0                     | C                       | 596                              | 90.8                                | F                       | 31.2                                    | C                           | 44                  | 196             |                 |
|                                       |            | EGL2 (O)              | 37                        | 36                              | 1        | 3%         | 26.0                     | C                       |                                  |                                     |                         |   |                             | 44                  | 196             |                 |
|                                       |            | EBT                   | 349                       | 347                             | 2        | 1%         | 98.6                     | F                       |                                  |                                     |                         |   |                             | 277                 | 824             |                 |
|                                       |            | EGR1 (I)              | 99                        | 96                              | 3        | 3%         | 99.8                     | F                       |                                  |                                     |                         |   |                             | 277                 | 824             |                 |
|                                       |            | EGR2 (O)              | 86                        | 83                              | 3        | 3%         | 99.7                     | F                       |                                  |                                     |                         |   |                             | 277                 | 824             |                 |
|                                       |            | WBL1 (I)              | 58                        | 56                              | 2        | 4%         | 7.6                      | A                       |                                  |                                     |                         |   |                             | 51                  | 193             |                 |
|                                       |            | WBL2 (O)              | 50                        | 48                              | 2        | 4%         | 9.0                      | A                       |                                  |                                     |                         |   |                             | 51                  | 193             |                 |
|                                       |            | WBT                   | 378                       | 375                             | 3        | 1%         | 47.4                     | D                       |                                  |                                     |                         |   |                             | 102                 | 427             |                 |
|                                       |            | WBR1 (I)              | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 102                 | 427             |                 |
|                                       |            | WBR2 (O)              | 3                         | 4                               | -1       | -33%       | 40.0                     | D                       |                                  |                                     |                         |   |                             | 102                 | 427             |                 |
|                                       |            | NBL1                  | 137                       | 134                             | 3        | 2%         | 44.7                     | D                       |                                  |                                     |                         |   |                             | 170                 | 134             | 557             |
|                                       |            | NBIT                  | 1636                      | 1624                            | 12       | 1%         | 42.6                     | D                       |                                  |                                     |                         |   |                             | 1275                | 134             | 557             |
|                                       |            | NBOT                  | 1299                      | 1295                            | 5        | 0%         | 40.9                     | D                       |                                  |                                     |                         |   |                             | 1275                | 151             | 605             |
|                                       |            | NBOR                  | 30                        | 29                              | 1        | 2%         | 40.2                     | D                       |                                  |                                     |                         |   |                             | 1275                | 151             | 605             |
|                                       |            | SBIL                  | 192                       | 182                             | 10       | 5%         | 34.9                     | C                       |                                  |                                     |                         |   |                             | 1050                | 78              | 412             |
|                                       |            | SBIT                  | 2373                      | 2389                            | -16      | -1%        | 16.4                     |                         |                                  |                                     |                         |   |                             |                     |                 |                 |

### AM Peak - 2025 Build-Access Change

| Intersection                                       | Control    | Movement  | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|--|------------|-----------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Whitaker Ave (South) - Garland St | Signalized | EBR       | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 0                                | 0.0                                 | A                       | 13.5                                    | B                           | 0                   | 0               | 0               |  |  |
|  |            | WBR1 (I)  | 327                       | 324                             | 3        | 1%         | 43.1                     | D                       | 400                              | 42.4                                | D                       |   |                             | 60                  | 268             |                 |  |  |
|  |            | WBR2 (O)  | 74                        | 76                              | -2       | -2%        | 39.7                     | D                       |                                  |                                     |                         |   |                             | 60                  | 268             |                 |  |  |
|  |            | NBIT      | 1670                      | 1657                            | 13       | 1%         | 14.7                     | B                       |                                  |                                     |                         |   |                             | 1080                | 39              | 280             |  |  |
|  |            | NBOT      | 1339                      | 1335                            | 4        | 0%         | 19.0                     | B                       | 3014                             | 16.6                                | B                       |   |                             | 1080                | 61              | 377             |  |  |
|  |            | NBOR      | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 111                 | 424             |                 |  |  |
|  |            | SBU1 (I)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 111                 | 424             |                 |  |  |
|  |            | SBU2 (O)  | 5                         | 4                               | 1        | 16%        | 38.1                     | D                       | 780                              | 45.1                                | D                       |   |                             | 320                 | 111             | 424             |  |  |
|  |            | SBL1      | 750                       | 776                             | -26      | -3%        | 45.1                     | D                       |                                  |                                     |                         |   |                             | 450                 | 24              | 313             |  |  |
|  |            | SBIT      | 2329                      | 2336                            | -7       | 0%         | 3.1                      | A                       | 2336                             | 3.1                                 | A                       |   |                             | 470                 | 3               | 117             |  |  |
|  |            | SBOT      | 2065                      | 2089                            | -24      | -1%        | 3.6                      | A                       |                                  |                                     |                         |   |                             | 470                 | 3               | 117             |  |  |
|  |            | SBOR      | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 470                 | 3               | 117             |  |  |
| Roosevelt Blvd & Whitaker Ave (North) - Adams Ave  | Signalized | EBL1 (I)  | 134                       | 134                             | 0        | 0%         | 0.4                      | A                       | 849                              | 10.6                                | B                       | 18.4                                    | B                           | 0                   | 2               |                 |  |  |
|  |            | EBL2 (O)  | 409                       | 412                             | -3       | -1%        | 0.9                      | A                       |                                  |                                     |                         |   |                             | 0                   | 2               |                 |  |  |
|  |            | EBr1 (I)  | 180                       | 181                             | -1       | -1%        | 29.1                     | C                       |                                  |                                     |                         |   |                             | 59                  | 239             |                 |  |  |
|  |            | EBR2 (O)  | 121                       | 115                             | 6        | 5%         | 28.3                     | C                       | 1983                             | 33.9                                | C                       |   |                             | 59                  | 239             |                 |  |  |
|  |            | NBIU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 59                  | 246             |                 |  |  |
|  |            | NBIU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 59                  | 246             |                 |  |  |
|  |            | NBIL      | 323                       | 323                             | 0        | 0%         | 20.2                     | C                       | 1433                             | 31.5                                | C                       |   |                             | 245                 | 59              | 246             |  |  |
|  |            | NBIT      | 1674                      | 1660                            | 13       | 1%         | 36.5                     | D                       |                                  |                                     |                         |   |                             | 265                 | 211             | 669             |  |  |
|  |            | NBOT      | 1413                      | 1411                            | 2        | 0%         | 31.5                     | C                       |                                  |                                     |                         |   |                             | 290                 | 167             | 656             |  |  |
|  |            | SBIT      | 2904                      | 2935                            | -31      | -1%        | 7.2                      | A                       | 2935                             | 7.2                                 | A                       |   |                             | 780                 | 31              | 279             |  |  |
|  |            | SBOT      | 2076                      | 2098                            | -21      | -1%        | 13.8                     | B                       |                                  |                                     |                         |   |                             | 800                 | 70              | 516             |  |  |
|  |            | SBOR      | 392                       | 398                             | -6       | -2%        | 19.4                     | B                       |                                  |                                     |                         |   |                             | 800                 | 70              | 516             |  |  |
| Roosevelt BLvd & Tower Blvd                        | Signalized | EBR       | 43                        | 43                              | 0        | 0%         | 18.5                     | B                       | 43                               | 18.5                                | B                       | 5.6                                     | A                           | 2                   | 63              |                 |  |  |
|  |            | NBIU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 12                  | 124             |                 |  |  |
|  |            | NBIU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 12                  | 123             |                 |  |  |
|  |            | NBIL      | 173                       | 180                             | -7       | -4%        | 31.6                     | C                       | 1802                             | 7.8                                 | A                       |   |                             | 320                 | 16              | 124             |  |  |
|  |            | NBIT      | 1635                      | 1622                            | 13       | 1%         | 5.1                      | A                       |                                  |                                     |                         |   |                             | 950                 | 8               | 168             |  |  |
|  |            | NBOT      | 1822                      | 1767                            | 55       | 3%         | 6.9                      | A                       | 1795                             | 6.9                                 | A                       |   |                             | 950                 | 18              | 297             |  |  |
|  |            | SBU1 (I)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 200                 | 32              | 270             |  |  |
|  |            | SBU1 (O)  | 159                       | 164                             | -5       | -3%        | 38.2                     | D                       | 3101                             | 5.3                                 | A                       |   |                             | 200                 | 32              | 270             |  |  |
|  |            | SBIT      | 2904                      | 2937                            | -33      | -1%        | 3.4                      | A                       |                                  |                                     |                         |   |                             | 580                 | 1               | 82              |  |  |
|  |            | SBOT      | 2425                      | 2458                            | -32      | -1%        | 3.4                      | A                       |                                  |                                     |                         |   |                             | 580                 | 3               | 110             |  |  |
|  |            | SBOR      | 51                        | 53                              | -2       | -4%        | 3.7                      | A                       |                                  |                                     |                         |   |                             | 580                 | 2               | 107             |  |  |
| Roosevelt Blvd & Langdon St                        | Signalized | EBL1 (I)  | 85                        | 84                              | 1        | 2%         | 1.1                      | A                       | 796                              | 33.2                                | C                       | 14.8                                    | B                           | 1                   | 147             |                 |  |  |
|  |            | EBL2 (O)  | 262                       | 268                             | -6       | -2%        | 6.5                      | A                       |                                  |                                     |                         |   |                             | 5                   | 162             |                 |  |  |
|  |            | EBT       | 347                       | 351                             | -4       | -1%        | 54.5                     | D                       |                                  |                                     |                         |   |                             | 200                 | 87              | 339             |  |  |
|  |            | EBR1 (I)  | 70                        | 65                              | 5        | 7%         | 58.9                     | E                       | 88                               | 48.3                                | D                       |   |                             | 87                  | 339             |                 |  |  |
|  |            | EBR2 (O)  | 28                        | 29                              | -1       | -2%        | 58.7                     | E                       |                                  |                                     |                         |   |                             | 0                   | 0               |                 |  |  |
|  |            | WBL1 (I)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 1682                             | 18.5                                | B                       |   |                             | 0                   | 0               |                 |  |  |
|  |            | WBL2 (O)  | 5                         | 4                               | 1        | 16%        | 10.9                     | B                       |                                  |                                     |                         |   |                             | 200                 | 22              | 147             |  |  |
|  |            | WBT       | 9                         | 9                               | 0        | 1%         | 51.0                     | D                       |                                  |                                     |                         |   |                             | 22                  | 147             |                 |  |  |
|  |            | WBR1 (I)  | 50                        | 50                              | 0        | 0%         | 47.5                     | D                       | 3159                             | 6.5                                 | A                       |   |                             | 22                  | 147             |                 |  |  |
|  |            | WBR2 (O)  | 26                        | 25                              | 1        | 3%         | 55.1                     | E                       |                                  |                                     |                         |   |                             | 400                 | 29              | 223             |  |  |
|  |            | NBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | 415                 | 64              | 454             |  |  |
|  |            | NBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       | 2641                             | 10.4                                | B                       |   |                             | 415                 | 64              | 454             |  |  |
|  |            | NBIL      | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | 580                 | 61              | 367             |  |  |
|  |            | NBIT      | 1694                      | 1682                            | 11       | 1%         | 18.5                     | B                       |                                  |                                     |                         |   |                             | 600                 | 142             | 642             |  |  |
|  |            | NBOT      | 1834                      | 1840                            | -6       | 0%         | 21.3                     | C                       | 1961                             | 21.9                                | C                       |   |                             | 600                 | 142             | 642             |  |  |
|  |            | NBOR      | 88                        | 93                              | -5       | -5%        | 33.0                     | C                       |                                  |                                     |                         |   |                             | 580                 | 1               | N/A             |  |  |
|  |            | SBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | 580                 | 1               | N/A             |  |  |
|  |            | SBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       | 2641                             | 10.4                                | B                       |   |                             | 400                 | 29              | 223             |  |  |
|  |            | SBL1      | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | 415                 | 64              | 454             |  |  |
|  |            | SBIT      | 3124                      | 3159                            | -36      | -1%        | 6.5                      | A                       |                                  |                                     |                         |   |                             | 415                 | 64              | 454             |  |  |
|  |            | SBOT      | 2313                      | 2349                            | -37      | -2%        | 8.3                      | A                       | 2313                             | 45.9                                | D                       |   |                             | 415                 | 64              | 454             |  |  |
|  |            | SBOR      | 272                       | 266                             | 6        | 2%         | 28.5                     | C                       |                                  |                                     |                         |   |                             | 580                 | 669             | 937             |  |  |
|  |            | WBL1 (I)  | 5                         | 6                               | -1       | -26%       | 19.3                     | B                       |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |  |  |
| Roosevelt Blvd & Summerdale Ave - Adams Ave        | Signalized | EBL2 (O)  | 7                         | 7                               | 0        | -3%        | 20.4                     | C                       | 1058                             | 87.0                                | F                       | 35.6                                    | D                           | 0                   | 70              |                 |  |  |
|  |            | EBT       | 323                       | 387                             | -64      | -20%       | 80.9                     | F                       |                                  |                                     |                         |   |                             | 1700                | 298             | 1423            |  |  |
|  |            | EBr1 (I)  | 281                       | 326                             | -45      | -16%       | 87.7                     | F                       |                                  |                                     |                         |   |                             | 300                 | 298             | 1423            |  |  |
|  |            | EBR2 (O)  | 282                       | 331                             | -49      | -17%       | 96.2                     | F                       |                                  |                                     |                         |   |                             | 300                 | 298             | 1423            |  |  |
|  |            | WBL1 (I)  | 247                       | 230                             | 17       | 7%         | 20.7                     | C                       | 749                              | 74.1                                | E                       |   |                             | 730                 | 634             | 902             |  |  |
|  |            | WBL2 (O)  | 233                       | 307                             | -74      | -32%       | 23.9                     | C                       |                                  |                                     |                         |   |                             | 730                 | 634             | 902             |  |  |
|  |            | WBT       | 142                       | 134                             | 8        | 6%         | 212.3                    | F                       |                                  |                                     |                         |   |                             | 120                 | 223             | 812             |  |  |
|  |            | WBR1 (I)  | 43                        | 43                              | 0        | -1%        | 204.7                    | F                       | 2167                             | 24.0                                | C                       |   |                             | 730                 | 240             | 584             |  |  |
|  |            | WBR2 (O)  | 28                        | 27                              | 1        | 5%         | 207.9                    | F                       |                                  |                                     |                         |   |                             | 730                 | 669             | 937             |  |  |
|  |            | NBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |  |  |
|  |            | NBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       | 2603                             | 17.9                                | B                       |   |                             | N/A                 | N/A             |                 |  |  |
|  |            | NBIL      | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |  |  |
|  |            | NBIT      | 1829                      | 1813                            | 16       | 1%         | 16.2                     | B                       |                                  |                                     |                         |   |                             | 950                 | 61              | 652             |  |  |
|  |            | NBOT      | 1379                      | 1393                            | -14      | -1%        | 19.0                     | B                       | 2313                             | 45.9                                | D                       |   |                             | 950                 | 285             | 912             |  |  |
|  |            | NBOR      | 743                       | 745                             | -2       | 0%         | 33.4                     | C                       |                                  |                                     |                         |   |                             | 950                 | 285             | 912             |  |  |
|  |            | SBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | 0                   | 0               | 0               |  |  |
|  |            | SBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       | 2313                             | 45.9                                |                         |   |                             |                     |                 |                 |  |  |

### AM Peak - 2025 Build-Access Change

| Intersection                   | Control      | Movement           | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |
|--------------------------------|--------------|--------------------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|
| Roosevelt Blvd & Pratt Street  | Signalized   | E BL1 (I)          | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 261                              | 59.4                                | E                       | 26.5                                    | C                           | 47                  | 174             |                 |  |
|                                |              | E BL2 (O)          | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 47                  | 174             |                 |  |
|                                |              | E BT               | 108                       | 107                             | 1        | 1%         | 58.2                     | E                       |                                  |                                     |                         |   |                             | 84                  | 383             |                 |  |
|                                |              | E BR1 (I)          | 85                        | 86                              | -1       | -1%        | 60.9                     | E                       |                                  |                                     |                         |   |                             | 84                  | 383             |                 |  |
|                                |              | E BR2 (O)          | 66                        | 64                              | 2        | 2%         | 59.4                     | E                       |                                  |                                     |                         |   |                             | 84                  | 383             |                 |  |
|                                |              | W BL1 (I)          | 110                       | 111                             | -1       | -1%        | 2.6                      | A                       |                                  |                                     |                         |   |                             | 7                   | 198             |                 |  |
|                                |              | W BL2 (O)          | 87                        | 92                              | -5       | -6%        | 5.9                      | A                       |                                  |                                     |                         |   |                             | 7                   | 198             |                 |  |
|                                |              | W BT               | 307                       | 310                             | -3       | -1%        | 108.6                    | F                       | 567                              | 68.9                                | E                       |   |                             | 248                 | 649             |                 |  |
|                                |              | W BR1 (I)          | 21                        | 22                              | -1       | -2%        | 103.4                    | F                       |                                  |                                     |                         |   |                             | 248                 | 649             |                 |  |
|                                |              | W BR2 (O)          | 3                         | 3                               | 0        | -10%       | 112.6                    | F                       |                                  |                                     |                         |   |                             | 248                 | 649             |                 |  |
|                                |              | N BIL              | 1                         | 2                               | -1       | -50%       | 18.9                     | B                       |                                  |                                     |                         |   |                             | 140                 | 53              |                 |  |
|                                |              | N BIT              | 1713                      | 1691                            | 22       | 1%         | 21.0                     | C                       |                                  |                                     |                         |   |                             | 1140                | 53              |                 |  |
|                                |              | N BOT              | 1162                      | 1156                            | 6        | 1%         | 19.2                     | B                       |                                  |                                     |                         |   |                             | 1140                | 495             |                 |  |
|                                |              | N BOR              | 231                       | 236                             | -5       | -2%        | 33.7                     | C                       |                                  |                                     |                         |   |                             | 1140                | 495             |                 |  |
|                                |              | S BIL              | 89                        | 90                              | -1       | -1%        | 37.0                     | D                       | 2567                             | 23.5                                | C                       |   |                             | 500                 | 88              |                 |  |
|                                |              | S BIT              | 2489                      | 2476                            | 12       | 0%         | 23.0                     | C                       |                                  |                                     |                         |   |                             | 500                 | 457             |                 |  |
|                                |              | S BOT              | 1578                      | 1585                            | -8       | 0%         | 21.5                     | C                       |                                  |                                     |                         |   |                             | 500                 | 550             |                 |  |
|                                |              | S BOR              | 1                         | 1                               | 0        | -20%       | 15.2                     | B                       |                                  |                                     |                         |   |                             | 500                 | 75              |                 |  |
| Adams Ave & Ramona Ave         | Signalized   | E BL               | 137                       | 138                             | -1       | -1%        | 45.1                     | D                       | 337                              | 39.3                                | D                       | 67.3                                    | E                           | 53                  | 321             |                 |  |
|                                |              | E BT               | 202                       | 199                             | 3        | 1%         | 35.3                     | D                       |                                  |                                     |                         |   |                             | 53                  | 321             |                 |  |
|                                |              | E BR               | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 43                  | 304             |                 |  |
|                                |              | W BL               | 2                         | 2                               | 0        | 5%         | 36.3                     | D                       |                                  |                                     |                         |   |                             | 39                  | 235             |                 |  |
|                                |              | W BT               | 201                       | 203                             | -2       | -1%        | 49.2                     | D                       |                                  |                                     |                         |   |                             | 39                  | 235             |                 |  |
|                                |              | W BR               | 48                        | 46                              | 3        | 6%         | 46.2                     | D                       |                                  |                                     |                         |   |                             | 50                  | 253             |                 |  |
|                                |              | N BL               | 74                        | 69                              | 5        | 7%         | 270.8                    | F                       | 668                              | 169.3                               | F                       |   |                             | 433                 | 1046            |                 |  |
|                                |              | N BT               | 611                       | 564                             | 47       | 8%         | 159.1                    | F                       |                                  |                                     |                         |   |                             | 433                 | 1046            |                 |  |
|                                |              | N BR               | 32                        | 28                              | 3        | 10%        | 126.6                    | F                       |                                  |                                     |                         |   |                             | 485                 | 1103            |                 |  |
|                                |              | S BL               | 5                         | 5                               | 0        | 3%         | 36.4                     | D                       |                                  |                                     |                         |   |                             | 76                  | 434             |                 |  |
|                                |              | S BT               | 563                       | 599                             | -36      | -6%        | 26.1                     | C                       |                                  |                                     |                         |   |                             | 76                  | 434             |                 |  |
| Summerdale Ave and Godfrey Ave | Unsignalized | E BT               | 12                        | 12                              | 0        | -4%        | 23.6                     | C                       | 288                              | 21.2                                | C                       | 23.2                                    | C                           | 30                  | 211             |                 |  |
|                                |              | E BR               | 277                       | 276                             | 1        | 0%         | 21.1                     | C                       |                                  |                                     |                         |   |                             | 34                  | 212             |                 |  |
|                                |              | W BL               | 11                        | 13                              | -2       | -21%       | 27.3                     | D                       |                                  |                                     |                         |   |                             | 2                   | 52              |                 |  |
|                                |              | W BT               | 5                         | 6                               | 0        | -7%        | 20.9                     | C                       |                                  |                                     |                         |   |                             | 2                   | 72              |                 |  |
|                                |              | W BR to Pratt      | 3                         | 3                               | 0        | 14%        | 22.1                     | C                       |                                  |                                     |                         |   |                             | 2                   | 72              |                 |  |
|                                |              | W BR to Summerdale | 5                         | 5                               | 0        | 5%         | 23.1                     | C                       |                                  |                                     |                         |   |                             | 13                  | 285             |                 |  |
|                                |              | N BL               | 108                       | 118                             | -10      | -9%        | 16.1                     | C                       | 518                              | 21.1                                | C                       |   |                             | 38                  | 380             |                 |  |
|                                |              | N BT               | 362                       | 385                             | -23      | -6%        | 22.8                     | C                       |                                  |                                     |                         |   |                             | 20                  | 324             |                 |  |
|                                |              | N BR               | 13                        | 15                              | -2       | -17%       | 17.5                     | C                       |                                  |                                     |                         |   |                             | 99                  | 541             |                 |  |
|                                |              | S BL               | 11                        | 10                              | 1        | 8%         | 29.2                     | D                       |                                  |                                     |                         |   |                             | 99                  | 541             |                 |  |
|                                |              | S BT               | 804                       | 744                             | 59       | 7%         | 25.3                     | D                       |                                  |                                     |                         |   |                             | 116                 | 572             |                 |  |
| Summerdale Ave and Pratt St    | Signalized   | E BL               | 3                         | 3                               | 0        | -8%        | 16.4                     | B                       | 81                               | 19.4                                | B                       | 24.2                                    | C                           | 6                   | 129             |                 |  |
|                                |              | E BT               | 79                        | 78                              | 1        | 2%         | 19.5                     | B                       |                                  |                                     |                         |   |                             | 6                   | 129             |                 |  |
|                                |              | W BL to Summerdale | 30                        | 27                              | 3        | 11%        | 26.8                     | C                       |                                  |                                     |                         |   |                             | 12                  | 185             |                 |  |
|                                |              | W BL to Godfrey    | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 12                  | 185             |                 |  |
|                                |              | W BT               | 50                        | 42                              | 8        | 16%        | 24.7                     | C                       |                                  |                                     |                         |   |                             | 12                  | 185             |                 |  |
|                                |              | W BR               | 49                        | 41                              | 8        | 17%        | 20.4                     | C                       |                                  |                                     |                         |   |                             | 19                  | 221             |                 |  |
|                                |              | N BT               | 358                       | 385                             | -27      | -8%        | 22.8                     | C                       | 387                              | 22.8                                | C                       |   |                             | 38                  | 380             |                 |  |
|                                |              | N BR               | 4                         | 2                               | 2        | 50%        | 18.6                     | B                       |                                  |                                     |                         |   |                             | 47                  | 412             |                 |  |
|                                |              | S BL               | 35                        | 33                              | 2        | 5%         | 29.6                     | C                       |                                  |                                     |                         |   |                             | 99                  | 541             |                 |  |
|                                |              | S BT               | 784                       | 744                             | 39       | 5%         | 25.3                     | C                       |                                  |                                     |                         |   |                             | 99                  | 541             |                 |  |
|                                |              | S BR               | 3                         | 2                               | 1        | 24%        | 20.9                     | C                       |                                  |                                     |                         |   |                             | 116                 | 572             |                 |  |
| Summerdale Ave and Bridge St   | Signalized   | E BL               | 4                         | 4                               | 1        | 14%        | 18.3                     | B                       | 53                               | 14.8                                | B                       | 26.3                                    | C                           | 4                   | 70              |                 |  |
|                                |              | E BT               | 41                        | 42                              | -1       | -2%        | 14.3                     | B                       |                                  |                                     |                         |   |                             | 4                   | 70              |                 |  |
|                                |              | E BR               | 8                         | 8                               | 1        | 11%        | 15.6                     | B                       |                                  |                                     |                         |   |                             | 4                   | 70              |                 |  |
|                                |              | W BL               | 37                        | 35                              | 1        | 4%         | 17.3                     | B                       |                                  |                                     |                         |   |                             | 15                  | 146             |                 |  |
|                                |              | W BT               | 96                        | 95                              | 0        | 0%         | 17.3                     | B                       |                                  |                                     |                         |   |                             | 15                  | 146             |                 |  |
|                                |              | W BR               | 44                        | 45                              | -1       | -3%        | 21.1                     | C                       |                                  |                                     |                         |   |                             | 15                  | 146             |                 |  |
|                                |              | N BL               | 11                        | 11                              | -1       | -8%        | 36.9                     | D                       | 436                              | 30.6                                | C                       |   |                             | 63                  | 399             |                 |  |
|                                |              | N BT               | 380                       | 397                             | -17      | -4%        | 30.7                     | C                       |                                  |                                     |                         |   |                             | 63                  | 399             |                 |  |
|                                |              | N BR               | 23                        | 25                              | -2       | -10%       | 25.3                     | C                       |                                  |                                     |                         |   |                             | 63                  | 399             |                 |  |
|                                |              | S BL               | 68                        | 68                              | 0        | 0%         | 28.4                     | C                       |                                  |                                     |                         |   |                             | 110                 | 563             |                 |  |
|                                |              | S BT               | 776                       | 747                             | 29       | 4%         | 26.4                     | C                       |                                  |                                     |                         |   |                             | 110                 | 563             |                 |  |
|                                |              | S BR               | 6                         | 5                               | 1        | 17%        | 24.6                     | C                       |                                  |                                     |                         |   |                             | 110                 | 563             |                 |  |
| Summerdale Ave and Sanger St   | Signalized   | E BL               | 24                        | 23                              | 1        | 6%         | 23.5                     | C                       | 65                               | 17.5                                | B                       | 39.8                                    | D                           | 4                   | 81              |                 |  |
|                                |              | E BT               | 30                        | 33                              | -3       | -8%        | 15.0                     | B                       |                                  |                                     |                         |   |                             | 4                   | 81              |                 |  |
|                                |              | E BR               | 11                        | 9                               | 1        | 10%        | 11.9                     | B                       |                                  |                                     |                         |   |                             | 10                  | 112             |                 |  |
|                                |              | W BL               | 6                         | 5                               | 1        | 17%        | 16.7                     | B                       |                                  |                                     |                         |   |                             | 4                   | 75              |                 |  |
|                                |              | W BT               | 44                        | 45                              | -1       | -3%        | 15.9                     | B                       |                                  |                                     |                         |   |                             | 9                   | 104             |                 |  |
|                                |              | W BR               | 13                        | 13                              | 0        | 0%         | 16.0                     | B                       | 63                               | 16.0                                | B                       |   |                             | 162                 | 472             |                 |  |
|                                |              | N BL               | 21                        | 22                              | -1       | -2%        | 65.7                     | E                       |                                  |                                     |                         |   |                             | 162                 | 472             |                 |  |
|                                |              | N BT               | 402                       | 410                             | -7       | -2%        | 61.5                     | E                       | 447                              | 61.6                                | E                       |   |                             | 183                 | 505             |                 |  |
|                                |              | N BR               | 13                        | 13                              | -1       | -4%        | 58.5                     | E                       |                                  |                                     |                         |   |                             | 146                 | 599             |                 |  |
|                                |              | S BL               | 40                        | 38                              | 2        | 4%         | 35.3                     | D                       |                                  |                                     |                         |   |                             | 146                 | 599             |                 |  |
|                                |              | S BT               | 814                       | 786                             | 28       | 3%         | 31.7                     | C                       | 852                              | 31.8                                | C                       |   |                             | 167                 | 632             |                 |  |

### AM Peak - 2025 Build-Access Change

| Intersection                      | Control    | Movement | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |
|-----------------------------------|------------|----------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|
| Summerdale Ave and Cheltenham Ave | Signalized | EBL      | 7                         | 7                               | 0        | 2%         | 19.8                     | B                       | 29                               | 15.2                                | B                       | 51.6                                    | D                           | 2                   | 46              |                 |  |
|                                   |            | EBT      | 18                        | 18                              | 0        | 0%         | 13.6                     | B                       |                                  |                                     |                         |   |                             | 2                   | 46              |                 |  |
|                                   |            | EBR      | 4                         | 4                               | 0        | -2%        | 14.2                     | B                       |                                  |                                     |                         |   |                             | 2                   | 46              |                 |  |
|                                   |            | WBL      | 12                        | 11                              | 0        | 1%         | 16.3                     | B                       |                                  |                                     |                         |   |                             | 3                   | 60              |                 |  |
|                                   |            | WBT      | 26                        | 27                              | -1       | -2%        | 15.7                     | B                       | 45                               | 16.9                                | B                       |   |                             | 3                   | 60              |                 |  |
|                                   |            | WBR      | 7                         | 7                               | 1        | 7%         | 23.0                     | C                       |                                  |                                     |                         |   |                             | 3                   | 60              |                 |  |
|                                   |            | NBL      | 5                         | 5                               | 0        | 3%         | 76.1                     | E                       |                                  |                                     |                         |   |                             | 210                 | 560             |                 |  |
|                                   |            | NBT      | 419                       | 415                             | 4        | 1%         | 76.5                     | E                       | 436                              | 76.5                                | E                       |   |                             | 210                 | 560             |                 |  |
|                                   |            | NBR      | 14                        | 13                              | 1        | 4%         | 74.9                     | E                       |                                  |                                     |                         |   |                             | 210                 | 560             |                 |  |
|                                   |            | SEL      | 24                        | 25                              | 0        | -2%        | 47.1                     | D                       |                                  |                                     |                         |   |                             | 216                 | 701             |                 |  |
|                                   |            | SBT      | 865                       | 837                             | 29       | 3%         | 42.1                     | D                       | 879                              | 42.2                                | D                       |   |                             | 216                 | 701             |                 |  |
|                                   |            | SBR      | 17                        | 14                              | 2        | 14%        | 39.0                     | D                       |                                  |                                     |                         |   |                             | 216                 | 701             |                 |  |
|                                   |            | EBL      | 22                        | 21                              | 1        | 5%         | 21.9                     | C                       |                                  |                                     |                         |   |                             | 43                  | 380             |                 |  |
| Summerdale Ave and Oxford Ave     | Signalized | EBT      | 317                       | 309                             | 9        | 3%         | 17.1                     | B                       | 609                              | 18.0                                | B                       | 62.7                                    | E                           | 43                  | 380             |                 |  |
|                                   |            | EBR      | 270                       | 276                             | -6       | -2%        | 18.6                     | B                       |                                  |                                     |                         |   |                             | 43                  | 380             |                 |  |
|                                   |            | WBL      | 4                         | 4                               | 1        | 14%        | 27.7                     | C                       |                                  |                                     |                         |   |                             | 18                  | 208             |                 |  |
|                                   |            | WBT      | 357                       | 356                             | 1        | 0%         | 12.7                     | B                       | 376                              | 12.8                                | B                       |   |                             | 18                  | 208             |                 |  |
|                                   |            | WBR      | 17                        | 17                              | 0        | -1%        | 12.4                     | B                       |                                  |                                     |                         |   |                             | 18                  | 208             |                 |  |
|                                   |            | NBL      | 138                       | 128                             | 10       | 7%         | 205.4                    | F                       | 405                              | 156.1                               | F                       |   |                             | 390                 | 695             |                 |  |
|                                   |            | NBT      | 282                       | 275                             | 8        | 3%         | 133.2                    | F                       |                                  |                                     |                         |   |                             | 390                 | 695             |                 |  |
|                                   |            | NBR      | 0                         | 0                               | 0        | N/A        | 32.0                     | C                       |                                  |                                     |                         |   |                             | 390                 | 695             |                 |  |
|                                   |            | SEL      | 63                        | 59                              | 5        | 7%         | 79.5                     | E                       | 640                              | 75.7                                | E                       |   |                             | 311                 | 610             |                 |  |
|                                   |            | SBT      | 612                       | 574                             | 38       | 6%         | 75.4                     | E                       |                                  |                                     |                         |   |                             | 311                 | 610             |                 |  |
|                                   |            | SBR      | 7                         | 7                               | 0        | -1%        | 72.8                     | E                       |                                  |                                     |                         |   |                             | 311                 | 610             |                 |  |

### AM Peak - 2025 Build Preferred

| Intersection                          | Control    | Movement              | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |
|---------------------------------------|------------|-----------------------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|
| Roosevelt Blvd & Front St             | Signalized | WBL1                  | 56                        | 56                              | 0        | 0%         | 1.0                      | A                       | 738                              | 16.8                                | B                       | 14.1                                    | B                           | 66                  | 123             |                 |
|                                       |            | WBL2                  | 49                        | 50                              | -1       | -2%        | 3.4                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | WBT                   | 599                       | 598                             | 1        | 0%         | 18.0                     | B                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | WBR1                  | 21                        | 22                              | -1       | -2%        | 40.2                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | WBR2                  | 13                        | 13                              | 0        | 2%         | 42.5                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | NBL1                  | 281                       | 280                             | 1        | 0%         | 135.0                    | F                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | NBIT                  | 1645                      | 1646                            | -1       | 0%         | 17.9                     | B                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | NBOT                  | 1278                      | 1275                            | 3        | 0%         | 18.5                     | B                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | SBIT                  | 2271                      | 2256                            | 15       | 1%         | 3.2                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | SBOT                  | 2265                      | 2279                            | -14      | -1%        | 4.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | SBOR                  | 62                        | 68                              | -6       | -9%        | 7.6                      | A                       | 2360                             | 4.1                                 | A                       | 14.1                                    | B                           | 63                  | 364             |                 |
| Roosevelt Blvd & Rising Sun Ave       | Signalized | EGL1 (I)              | 34                        | 33                              | 1        | 3%         | 9.9                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | EGL2 (O)              | 38                        | 38                              | 0        | 1%         | 11.9                     | B                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | EBT                   | 275                       | 273                             | 2        | 1%         | 54.7                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | EGR1 (I)              | 110                       | 109                             | 1        | 1%         | 56.5                     | E                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | EGR2 (O)              | 96                        | 94                              | 2        | 2%         | 55.1                     | E                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | WBL1 (I)              | 57                        | 59                              | -2       | -3%        | 11.9                     | B                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | WBL2 (O)              | 49                        | 48                              | 1        | 2%         | 18.8                     | B                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | WBT                   | 333                       | 335                             | -2       | 0%         | 42.1                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | WBR1 (I)              | 52                        | 53                              | -1       | -1%        | 42.1                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | WBR2 (O)              | 14                        | 12                              | 3        | 18%        | 41.4                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | NBL                   | N/A                       | N/A                             | N/A      | N/A        | -                        | N/A                     |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | NBIT                  | 1666                      | 1673                            | -6       | 0%         | 15.9                     | B                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | NBOT                  | 1290                      | 1288                            | 2        | 0%         | 16.1                     | B                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | SBIL                  | 253                       | 267                             | -14      | -5%        | 21.3                     | C                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | SBIT                  | 2104                      | 2087                            | 17       | 1%         | 5.7                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | SBOT                  | 2182                      | 2205                            | -23      | -1%        | 7.5                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | SBOR                  | 161                       | 164                             | -2       | -1%        | 33.3                     | C                       |                                  |                                     |                         |   |                             |                     |                 |                 |
| Roosevelt Blvd & B St Michigan U-Turn | Signalized | WBR                   | 1                         | 1                               | 0        | 0%         | 0.7                      | A                       | 1758                             | 0.7                                 | A                       | 4.1                                     | A                           | 0                   | 9               |                 |
|                                       |            | NBU1 (I)              | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | NBU2 (O)              | 161                       | 164                             | -2       | -1%        | 43.9                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | NBIT                  | 1591                      | 1594                            | -3       | 0%         | 2.7                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | NBOT                  | 1343                      | 1339                            | 4        | 0%         | 3.6                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | NBOR                  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | SBIT                  | 2357                      | 2356                            | 1        | 0%         | 3.1                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | SBOT                  | 2182                      | 2204                            | -22      | -1%        | 3.6                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
| Roosevelt Blvd & C Street             | Signalized | EGL1 (I)              | 98                        | 96                              | 2        | 2%         | 18.9                     | B                       | 603                              | 52.0                                | D                       | 33.1                                    | C                           | 49                  | 200             |                 |
|                                       |            | EGL2 (O)              | 27                        | 28                              | -1       | -3%        | 20.7                     | C                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | EBT                   | 342                       | 343                             | -1       | 0%         | 61.1                     | E                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | EGR1 (I)              | 67                        | 65                              | 2        | 3%         | 59.8                     | E                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | EGR2 (O)              | 58                        | 58                              | 0        | 0%         | 59.5                     | E                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | WBL1 (I)              | 49                        | 48                              | 2        | 3%         | 9.3                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | WBL2 (O)              | 43                        | 42                              | 1        | 3%         | 8.7                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | WBT                   | 350                       | 347                             | 4        | 1%         | 107.0                    | F                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | WBR1 (I)              | 26                        | 26                              | 0        | 1%         | 112.0                    | F                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | WBR2 (O)              | 5                         | 5                               | 0        | 8%         | 129.0                    | F                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | NBL                   | 4                         | 4                               | 0        | -5%        | 54.6                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | NBIT                  | 1587                      | 1587                            | 0        | 0%         | 51.1                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | NBOT                  | 1313                      | 1310                            | 3        | 0%         | 53.8                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | NBOR                  | 32                        | 32                              | 0        | -1%        | 32.2                     | C                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | SBIL                  | 197                       | 196                             | 1        | 0%         | 47.1                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | SBIT                  | 2112                      | 2111                            | 1        | 0%         | 7.3                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | SBOT                  | 2210                      | 2237                            | -27      | -1%        | 15.4                     | B                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | SBOR                  | 138                       | 145                             | -7       | -5%        | 19.2                     | B                       |                                  |                                     |                         |   |                             |                     |                 |                 |
| Roosevelt Blvd & Rorer St - D St      | Signalized | EBR (from D St)       | 18                        | 18                              | 0        | 1%         | 1.5                      | A                       | 1592                             | 1.5                                 | A                       | 5.7                                     | A                           | 0                   | 30              |                 |
|                                       |            | EBR (from Bingham St) | 111                       | 111                             | 0        | 0%         | 5.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | WBR                   | 47                        | 47                              | 0        | 0%         | 1.8                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | NBIT                  | 1711                      | 1709                            | 2        | 0%         | 3.1                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | NBOT                  | 1344                      | 1343                            | 1        | 0%         | 3.6                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | NBOR                  | 1                         | 1                               | 0        | 30%        | 6.7                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | SBIT                  | 2309                      | 2312                            | -3       | 0%         | 5.1                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | SBOT                  | 2204                      | 2242                            | -38      | -2%        | 9.5                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | SBOR (to D St)        | 108                       | 103                             | 5        | 5%         | 9.1                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | SBOR (to Bingham St)  | 54                        | 56                              | -2       | -3%        | 8.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
| Roosevelt Blvd & F Street             | Signalized | EGL1 (I)              | 34                        | 34                              | 0        | 0%         | 27.8                     | C                       | 596                              | 89.3                                | F                       | 29.7                                    | C                           | 45                  | 202             |                 |
|                                       |            | EGL2 (O)              | 37                        | 36                              | 1        | 3%         | 21.8                     | C                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | EBL3                  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | EBT                   | 349                       | 346                             | 3        | 1%         | 97.3                     | F                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | EGR1 (I)              | 99                        | 96                              | 3        | 3%         | 99.7                     | F                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | EGR2 (O)              | 86                        | 84                              | 2        | 2%         | 98.4                     | F                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | WBL1 (I)              | 58                        | 54                              | 4        | 6%         | 7.9                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | WBL2 (O)              | 50                        | 49                              | 1        | 2%         | 10.7                     | B                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | WBT                   | 378                       | 375                             | 3        | 1%         | 47.6                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | WBR1 (I)              | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | WBR2 (O)              | 3                         | 4                               | -1       | -43%       | 42.0                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | NBL1                  | 137                       | 134                             | 3        | 2%         | 44.5                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|                                       |            | NBIT                  | 1636                      | 1634                            | 2        | 0%         |                          |                         |                                  |                                     |                         |   |                             |                     |                 |                 |

### AM Peak - 2025 Build Preferred

| Intersection                                       | Control    | Movement  | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|--|------------|-----------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Whitaker Ave (South) - Garland St | Signalized | EBR       | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 0                                | 0.0                                 | A                       | 13.8                                    | B                           | 0                   | 0               | 0               |  |  |
|  |            | WBR1 (I)  | 327                       | 325                             | 2        | 1%         | 43.0                     | D                       | 401                              | 42.4                                | D                       |   |                             | 59                  | 257             |                 |  |  |
|  |            | WBR2 (O)  | 74                        | 76                              | -2       | -2%        | 39.9                     | D                       |                                  |                                     |                         |   |                             | 59                  | 257             |                 |  |  |
|  |            | NBIT      | 1670                      | 1668                            | 2        | 0%         | 15.3                     | B                       | 3026                             | 16.9                                | B                       |   |                             | 1080                | 41              | 293             |  |  |
|  |            | NBOT      | 1339                      | 1343                            | -4       | 0%         | 18.9                     | B                       |                                  |                                     |                         |   |                             | 1080                | 61              | 367             |  |  |
|  |            | NBOR      | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 773                              | 46.2                                | D                       |   |                             | 111                 | 362             |                 |  |  |
|  |            | SBU1 (I)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 111                 | 362             |                 |  |  |
|  |            | SBU2 (O)  | 5                         | 4                               | 1        | 16%        | 45.6                     | D                       | 2338                             | 2.7                                 | A                       |   |                             | 320                 | 111             | 362             |  |  |
|  |            | SBIL      | 750                       | 769                             | -19      | -3%        | 46.2                     | D                       |                                  |                                     |                         |   |                             | 450                 | 26              | 290             |  |  |
|  |            | SBIT      | 2329                      | 2338                            | -10      | 0%         | 2.7                      | A                       | 2125                             | 4.1                                 | A                       |   |                             | 470                 | 4               | 160             |  |  |
|  |            | SBOT      | 2065                      | 2102                            | -38      | -2%        | 4.1                      | A                       |                                  |                                     |                         |   |                             | 470                 | 4               | 160             |  |  |
|  |            | SBOR      | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 800                 | 133             | 723             |  |  |
| Roosevelt Blvd & Whitaker Ave (North) - Adams Ave  | Signalized | EBL1 (I)  | 134                       | 134                             | 0        | 0%         | 0.4                      | A                       | 848                              | 10.7                                | B                       | 23.5                                    | C                           | 0                   | 9               |                 |  |  |
|  |            | EBL2 (O)  | 409                       | 414                             | -5       | -1%        | 0.9                      | A                       |                                  |                                     |                         |   |                             | 0                   | 9               |                 |  |  |
|  |            | EBr1 (I)  | 180                       | 179                             | 1        | 0%         | 29.3                     | C                       | 1997                             | 33.7                                | C                       |   |                             | 59                  | 242             |                 |  |  |
|  |            | EBr2 (O)  | 121                       | 115                             | 6        | 5%         | 28.7                     | C                       |                                  |                                     |                         |   |                             | 59                  | 242             |                 |  |  |
|  |            | NBIU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 1434                             | 31.5                                | C                       |   |                             | 57                  | 234             |                 |  |  |
|  |            | NBIU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 57                  | 234             |                 |  |  |
|  |            | NBIL      | 323                       | 323                             | 0        | 0%         | 19.7                     | B                       | 2926                             | 17.3                                | B                       |   |                             | 245                 | 57              | 234             |  |  |
|  |            | NBIT      | 1674                      | 1674                            | 0        | 0%         | 36.4                     | D                       |                                  |                                     |                         |   |                             | 265                 | 218             | 683             |  |  |
|  |            | NBOT      | 1413                      | 1419                            | -6       | 0%         | 31.5                     | C                       | 2541                             | 22.6                                | C                       |   |                             | 290                 | 169             | 664             |  |  |
|  |            | SBIT      | 2904                      | 2926                            | -23      | -1%        | 17.3                     | B                       |                                  |                                     |                         |   |                             | 780                 | 100             | 581             |  |  |
|  |            | SBOT      | 2076                      | 2113                            | -36      | -2%        | 21.6                     | C                       |                                  |                                     |                         |   |                             | 800                 | 133             | 723             |  |  |
|  |            | SBOR      | 392                       | 400                             | -8       | -2%        | 27.9                     | C                       |                                  |                                     |                         |   |                             | 800                 | 133             | 723             |  |  |
| Roosevelt BLvd & Tower Blvd                        | Signalized | EBR       | 43                        | 43                              | 0        | 0%         | 17.6                     | B                       | 43                               | 17.6                                | B                       | 6.3                                     | A                           | 1                   | 59              |                 |  |  |
|  |            | NBIU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 11                  | 128             |                 |  |  |
|  |            | NBIU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 1812                             | 9.3                                 | A                       |   |                             | 11                  | 128             |                 |  |  |
|  |            | NBIL      | 167                       | 173                             | -6       | -4%        | 34.0                     | C                       |                                  |                                     |                         |   |                             | 320                 | 15              | 129             |  |  |
|  |            | NBIT      | 1641                      | 1639                            | 2        | 0%         | 6.7                      | A                       | 1796                             | 6.6                                 | A                       |   |                             | 950                 | 11              | 213             |  |  |
|  |            | NBOT      | 1822                      | 1776                            | 47       | 3%         | 6.6                      | A                       |                                  |                                     |                         |   |                             | 950                 | 17              | 303             |  |  |
|  |            | SBU1 (I)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 3091                             | 5.5                                 | A                       |   |                             | 200                 | 26              | 272             |  |  |
|  |            | SBU1 (O)  | 159                       | 164                             | -5       | -3%        | 31.8                     | C                       |                                  |                                     |                         |   |                             | 200                 | 26              | 272             |  |  |
|  |            | SBIT      | 2904                      | 2926                            | -23      | -1%        | 4.0                      | A                       | 2551                             | 4.9                                 | A                       |   |                             | 580                 | 9               | 186             |  |  |
|  |            | SBOT      | 2425                      | 2469                            | -44      | -2%        | 4.9                      | A                       |                                  |                                     |                         |   |                             | 580                 | 10              | 194             |  |  |
|  |            | SBOR      | 51                        | 54                              | -3       | -7%        | 5.1                      | A                       |                                  |                                     |                         |   |                             | 580                 | 8               | 194             |  |  |
| Roosevelt Blvd & Langdon St                        | Signalized | EBL1 (I)  | 85                        | 84                              | 1        | 1%         | 0.7                      | A                       | 795                              | 31.4                                | C                       | 17.0                                    | B                           | 0                   | 95              |                 |  |  |
|  |            | EBL2 (O)  | 262                       | 267                             | -5       | -2%        | 3.2                      | A                       |                                  |                                     |                         |   |                             | 2                   | 120             |                 |  |  |
|  |            | EBT       | 347                       | 350                             | -3       | -1%        | 53.3                     | D                       | 88                               | 45.6                                | D                       |   |                             | 200                 | 86              | 335             |  |  |
|  |            | EBr1 (I)  | 70                        | 66                              | 4        | 6%         | 57.7                     | E                       |                                  |                                     |                         |   |                             | 86                  | 335             |                 |  |  |
|  |            | EBr2 (O)  | 28                        | 28                              | 0        | -1%        | 57.0                     | E                       | 1697                             | 18.4                                | B                       |   |                             | 86                  | 335             |                 |  |  |
|  |            | WBL1 (I)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 0                   | 0               |                 |  |  |
|  |            | WBL2 (O)  | 5                         | 4                               | 1        | 22%        | 10.9                     | B                       | 3150                             | 8.6                                 | A                       |   |                             | 200                 | 21              | 141             |  |  |
|  |            | WBT       | 9                         | 8                               | 1        | 9%         | 50.4                     | D                       |                                  |                                     |                         |   |                             | 21                  | 141             |                 |  |  |
|  |            | WBR1 (I)  | 50                        | 49                              | 1        | 2%         | 45.6                     | D                       | 1962                             | 21.9                                | C                       |   |                             | 21                  | 141             |                 |  |  |
|  |            | WBR2 (O)  | 26                        | 27                              | -1       | -5%        | 49.1                     | D                       |                                  |                                     |                         |   |                             | 2                   | 28              |                 |  |  |
|  |            | NBLU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 3150                             | 8.6                                 | A                       |   |                             | 2                   | 28              |                 |  |  |
|  |            | NBLU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 190                 | 2               | 28              |  |  |
|  |            | NBIL      | 6                         | 5                               | 1        | 15%        | 76.0                     | E                       | 2677                             | 17.4                                | B                       |   |                             | 580                 | 60              | 379             |  |  |
|  |            | NBIT      | 1694                      | 1692                            | 2        | 0%         | 18.2                     | B                       |                                  |                                     |                         |   |                             | 600                 | 134             | 637             |  |  |
|  |            | NBOT      | 1834                      | 1847                            | -13      | -1%        | 21.4                     | C                       | 2160                             | 19.9                                | B                       |   |                             | 600                 | 134             | 637             |  |  |
|  |            | NBOR      | 88                        | 95                              | -7       | -7%        | 31.0                     | C                       |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |  |  |
|  |            | SBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       | 2589                             | 59.6                                | E                       |   |                             | N/A                 | N/A             |                 |  |  |
|  |            | SBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | 400                 | 49              | 329             |  |  |
|  |            | SBIL      | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       | 2013                             | 54.8                                | D                       |   |                             | 415                 | 108             | 535             |  |  |
|  |            | SBIT      | 3124                      | 3150                            | -26      | -1%        | 8.6                      | A                       |                                  |                                     |                         |   |                             | 415                 | 108             | 535             |  |  |
|  |            | SBOT      | 2313                      | 2372                            | -60      | -3%        | 17.3                     | B                       | 277                              | 17.4                                | B                       |   |                             | N/A                 | N/A             |                 |  |  |
|  |            | SBOR      | 272                       | 277                             | -5       | -2%        | 18.3                     | B                       |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |  |  |
| Roosevelt Blvd & Summerdale Ave - Adams Ave        | Signalized | EBL1 (I)  | 5                         | 6                               | -1       | -20%       | 19.0                     | B                       | 1031                             | 121.4                               | F                       | 50.7                                    | D                           | 1                   | 141             |                 |  |  |
|  |            | EBL2 (O)  | 7                         | 7                               | 0        | -3%        | 17.6                     | B                       |                                  |                                     |                         |   |                             | 1700                | 570             | 1625            |  |  |
|  |            | EBT       | 323                       | 372                             | -49      | -15%       | 119.8                    | F                       | 792                              | 50.2                                | D                       |   |                             | 300                 | 570             | 1625            |  |  |
|  |            | EBr1 (I)  | 281                       | 318                             | -37      | -13%       | 121.7                    | F                       |                                  |                                     |                         |   |                             | 300                 | 570             | 1625            |  |  |
|  |            | EBr2 (O)  | 282                       | 327                             | -45      | -16%       | 127.1                    | F                       | 1504                             | 19.4                                | B                       |   |                             | 730                 | 377             | 739             |  |  |
|  |            | WBL1 (I)  | 247                       | 244                             | 3        | 1%         | 21.1                     | C                       |                                  |                                     |                         |   |                             | 730                 | 377             | 739             |  |  |
|  |            | WBL2 (O)  | 233                       | 324                             | -91      | -39%       | 25.1                     | C                       | 2160                             | 19.9                                | B                       |   |                             | 120                 | 75              | 552             |  |  |
|  |            | WBT       | 142                       | 141                             | 1        | 1%         | 130.8                    | F                       |                                  |                                     |                         |   |                             | 730                 | 8               | 204             |  |  |
|  |            | WBR1 (I)  | 43                        | 47                              | -4       | -10%       | 101.9                    | F                       | 2589                             | 59.6                                | E                       |   |                             | 730                 | 410             | 774             |  |  |
|  |            | WBR2 (O)  | 28                        | 28                              | 0        | 1%         | 100.3                    | F                       |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |  |  |
|  |            | NBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       | 2013                             | 54.8                                | D                       |   |                             | 315                 | 84              | 309             |  |  |
|  |            | NBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | 450                 | 56              | 435             |  |  |
|  |            | NBIL      | 318                       | 315                             | 3        | 1%         | 81.3                     | F                       | 2160                             | 19.9                                | B                       |   |                             | 450                 | 11              | 453             |  |  |
|  |            | NBIT      | 1511                      | 1504                            | 7        | 0%         | 19.4                     | B                       |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |  |  |
|  |            | NBOT      | 1379                      | 1392                            | -13      | -1%        | 20.3                     | C                       | 2589                             | 59.6                                | E                       |   |                             | 450                 | 0               | 42              |  |  |
|  |            | NBOR      | 743                       | 748                             | -5       | -1%        | 19.1                     | B                       |                                  |                                     |                         |   |                             |                     |                 |                 |  |  |

### AM Peak - 2025 Build Preferred

| Intersection                   | Control      | Movement          | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |
|--------------------------------|--------------|-------------------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|
| Roosevelt Blvd & Pratt Street  | Signalized   | EBL1 (I)          | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 257                              | 57.4                                | E                       | 24.7                                    | C                           | 45                  | 168             |                 |  |
|                                |              | EBL2 (O)          | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 45                  | 168             |                 |  |
|                                |              | EBT               | 108                       | 105                             | 3        | 3%         | 55.4                     | E                       |                                  |                                     |                         |   |                             | 81                  | 344             |                 |  |
|                                |              | EBR1 (I)          | 85                        | 84                              | 1        | 1%         | 60.5                     | E                       |                                  |                                     |                         |   |                             | 81                  | 344             |                 |  |
|                                |              | EBR2 (O)          | 66                        | 64                              | 2        | 3%         | 56.8                     | E                       |                                  |                                     |                         |   |                             | 81                  | 344             |                 |  |
|                                |              | WBL1 (I)          | 110                       | 113                             | -3       | -3%        | 2.4                      | A                       | 567                              | 59.8                                | E                       |   |                             | 5                   | 201             |                 |  |
|                                |              | WBL2 (O)          | 87                        | 89                              | -2       | -2%        | 4.8                      | A                       |                                  |                                     |                         |   |                             | 5                   | 201             |                 |  |
|                                |              | WBT               | 307                       | 312                             | -5       | -2%        | 94.2                     | F                       |                                  |                                     |                         |   |                             | 212                 | 625             |                 |  |
|                                |              | WBR1 (I)          | 21                        | 20                              | 1        | 6%         | 86.8                     | F                       |                                  |                                     |                         |   |                             | 212                 | 625             |                 |  |
|                                |              | WBR2 (O)          | 3                         | 3                               | 0        | -13%       | 88.3                     | F                       |                                  |                                     |                         |   |                             | 212                 | 625             |                 |  |
|                                |              | NBIL              | 1                         | 1                               | 0        | -40%       | 11.2                     | B                       | 1709                             | 19.4                                | B                       |   |                             | 140                 | 51              |                 |  |
|                                |              | NBT               | 1713                      | 1708                            | 5        | 0%         | 19.4                     | B                       |                                  |                                     |                         |   |                             | 1140                | 51              |                 |  |
|                                |              | NBOT              | 1162                      | 1151                            | 11       | 1%         | 15.8                     | B                       |                                  |                                     |                         |   |                             | 1140                | 54              |                 |  |
|                                |              | NBOR              | 231                       | 238                             | -7       | -3%        | 26.7                     | C                       |                                  |                                     |                         |   |                             | 1140                | 54              |                 |  |
|                                |              | SBIL              | 89                        | 91                              | -2       | -3%        | 35.3                     | D                       | 2564                             | 23.0                                | C                       |   |                             | 500                 | 86              |                 |  |
|                                |              | SBIT              | 2489                      | 2472                            | 16       | 1%         | 22.5                     | C                       |                                  |                                     |                         |   |                             | 500                 | 86              |                 |  |
|                                |              | SBOT              | 1578                      | 1591                            | -14      | -1%        | 22.0                     | C                       |                                  |                                     |                         |   |                             | 500                 | 540             |                 |  |
|                                |              | SBOR              | 1                         | 1                               | 0        | -20%       | 22.7                     | C                       |                                  |                                     |                         |   |                             | 500                 | 79              |                 |  |
|                                |              | EBL               | 137                       | 140                             | -4       | -3%        | 36.1                     | D                       |                                  |                                     |                         |   |                             | 47                  | 296             |                 |  |
| Adams Ave & Ramona Ave         | Signalized   | EBT               | 202                       | 198                             | 4        | 2%         | 32.8                     | C                       | 338                              | 34.2                                | C                       | 32.8                                    | C                           | 47                  | 296             |                 |  |
|                                |              | EBR               | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 36                  | 279             |                 |  |
|                                |              | WBL               | 2                         | 2                               | 0        | -5%        | 46.9                     | D                       |                                  |                                     |                         |   |                             | 40                  | 234             |                 |  |
|                                |              | WBT               | 201                       | 201                             | 0        | 0%         | 54.2                     | D                       |                                  |                                     |                         |   |                             | 40                  | 234             |                 |  |
|                                |              | WBR               | 48                        | 46                              | 2        | 5%         | 48.2                     | D                       |                                  |                                     |                         |   |                             | 51                  | 252             |                 |  |
|                                |              | NBL               | 74                        | 75                              | -1       | -2%        | 84.4                     | F                       | 714                              | 46.2                                | D                       |   |                             | 100                 | 316             |                 |  |
|                                |              | NBT               | 611                       | 602                             | 9        | 1%         | 42.3                     | D                       |                                  |                                     |                         |   |                             | 100                 | 316             |                 |  |
|                                |              | NBR               | 32                        | 29                              | 2        | 7%         | 28.6                     | C                       |                                  |                                     |                         |   |                             | 136                 | 373             |                 |  |
|                                |              | SBL               | 5                         | 5                               | 0        | 7%         | 32.2                     | C                       |                                  |                                     |                         |   |                             | 59                  | 536             |                 |  |
|                                |              | SBT               | 563                       | 592                             | -29      | -5%        | 23.8                     | C                       |                                  |                                     |                         |   |                             | 59                  | 536             |                 |  |
| Summerdale Ave and Godfrey Ave | Unsignalized | EBT               | 12                        | 12                              | 0        | -2%        | 35.9                     | E                       | 289                              | 28.2                                | D                       | 35.3                                    | E                           | 44                  | 300             |                 |  |
|                                |              | EBR               | 277                       | 278                             | -1       | 0%         | 27.9                     | D                       |                                  |                                     |                         |   |                             | 48                  | 302             |                 |  |
|                                |              | WBL               | 11                        | 13                              | -2       | -22%       | 21.5                     | C                       |                                  |                                     |                         |   |                             | 1                   | 52              |                 |  |
|                                |              | WBT               | 5                         | 6                               | -1       | -14%       | 18.5                     | C                       |                                  |                                     |                         |   |                             | 1                   | 72              |                 |  |
|                                |              | WBR to Pratt      | 3                         | 3                               | 1        | 17%        | 19.5                     | C                       |                                  |                                     |                         |   |                             | 1                   | 72              |                 |  |
|                                |              | WBR to Summerdale | 5                         | 5                               | 0        | -3%        | 24.9                     | C                       | 519                              | 44.0                                | E                       |   |                             | 79                  | 540             |                 |  |
|                                |              | NBL               | 108                       | 119                             | -11      | -10%       | 37.4                     | E                       |                                  |                                     |                         |   |                             | 111                 | 634             |                 |  |
|                                |              | NBT               | 362                       | 387                             | -25      | -7%        | 46.3                     | E                       |                                  |                                     |                         |   |                             | 89                  | 578             |                 |  |
|                                |              | NBR               | 13                        | 14                              | -1       | -7%        | 36.2                     | E                       |                                  |                                     |                         |   |                             | 130                 | 550             |                 |  |
|                                |              | SBT               | 804                       | 725                             | 78       | 10%        | 32.4                     | D                       |                                  |                                     |                         |   |                             | 130                 | 550             |                 |  |
| Summerdale Ave and Pratt St    | Signalized   | EBL               | 3                         | 3                               | 0        | -2%        | 19.6                     | B                       | 80                               | 20.7                                | C                       | 35.4                                    | D                           | 6                   | 133             |                 |  |
|                                |              | EBT               | 79                        | 77                              | 2        | 2%         | 20.8                     | C                       |                                  |                                     |                         |   |                             | 6                   | 133             |                 |  |
|                                |              | WBL to Summerdale | 30                        | 28                              | 3        | 10%        | 34.4                     | C                       |                                  |                                     |                         |   |                             | 15                  | 224             |                 |  |
|                                |              | WBL to Godfrey    | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 15                  | 224             |                 |  |
|                                |              | WBT               | 50                        | 44                              | 7        | 13%        | 29.6                     | C                       |                                  |                                     |                         |   |                             | 15                  | 224             |                 |  |
|                                |              | WBR               | 49                        | 41                              | 8        | 16%        | 23.3                     | C                       | 389                              | 46.2                                | D                       |   |                             | 23                  | 259             |                 |  |
|                                |              | NBT               | 358                       | 387                             | -29      | -8%        | 46.3                     | D                       |                                  |                                     |                         |   |                             | 111                 | 634             |                 |  |
|                                |              | NBR               | 4                         | 2                               | 2        | 45%        | 35.5                     | D                       |                                  |                                     |                         |   |                             | 120                 | 652             |                 |  |
|                                |              | SBL               | 35                        | 32                              | 2        | 6%         | 34.4                     | C                       |                                  |                                     |                         |   |                             | 130                 | 550             |                 |  |
|                                |              | SBT               | 784                       | 725                             | 58       | 7%         | 32.4                     | C                       |                                  |                                     |                         |   |                             | 130                 | 550             |                 |  |
| Summerdale Ave and Bridge St   | Signalized   | EBL               | 4                         | 4                               | 0        | 10%        | 27.4                     | C                       | 53                               | 15.2                                | B                       | 34.9                                    | C                           | 4                   | 71              |                 |  |
|                                |              | EBT               | 41                        | 41                              | 0        | -1%        | 14.0                     | B                       |                                  |                                     |                         |   |                             | 4                   | 71              |                 |  |
|                                |              | EBR               | 8                         | 8                               | 1        | 10%        | 15.7                     | B                       |                                  |                                     |                         |   |                             | 4                   | 71              |                 |  |
|                                |              | WBL               | 37                        | 37                              | 0        | 0%         | 18.8                     | B                       |                                  |                                     |                         |   |                             | 15                  | 144             |                 |  |
|                                |              | WBT               | 96                        | 94                              | 1        | 2%         | 17.8                     | B                       |                                  |                                     |                         |   |                             | 15                  | 144             |                 |  |
|                                |              | WBR               | 44                        | 45                              | -1       | -2%        | 26.9                     | C                       | 436                              | 51.6                                | D                       |   |                             | 15                  | 144             |                 |  |
|                                |              | NBL               | 11                        | 11                              | 0        | -1%        | 52.7                     | D                       |                                  |                                     |                         |   |                             | 123                 | 494             |                 |  |
|                                |              | NBT               | 380                       | 397                             | -17      | -4%        | 52.1                     | D                       |                                  |                                     |                         |   |                             | 123                 | 494             |                 |  |
|                                |              | NBR               | 23                        | 25                              | -2       | -10%       | 44.0                     | D                       |                                  |                                     |                         |   |                             | 123                 | 494             |                 |  |
|                                |              | SBL               | 68                        | 68                              | 1        | 1%         | 30.8                     | C                       |                                  |                                     |                         |   |                             | 128                 | 589             |                 |  |
| Summerdale Ave and Sanger St   | Signalized   | EBT               | 776                       | 727                             | 49       | 6%         | 30.3                     | C                       | 803                              | 30.3                                | C                       | 46.9                                    | D                           | 128                 | 589             |                 |  |
|                                |              | EBR               | 6                         | 5                               | 1        | 17%        | 27.0                     | C                       |                                  |                                     |                         |   |                             | 128                 | 589             |                 |  |
|                                |              | WBL               | 24                        | 23                              | 2        | 6%         | 25.6                     | C                       | 65                               | 17.7                                | B                       |   |                             | 4                   | 85              |                 |  |
|                                |              | WBT               | 30                        | 33                              | -2       | -7%        | 14.0                     | B                       |                                  |                                     |                         |   |                             | 4                   | 85              |                 |  |
|                                |              | EBR               | 11                        | 10                              | 1        | 8%         | 12.0                     | B                       |                                  |                                     |                         |   |                             | 10                  | 117             |                 |  |
|                                |              | WBL               | 6                         | 5                               | 1        | 16%        | 15.5                     | B                       | 63                               | 15.8                                | B                       |   |                             | 4                   | 72              |                 |  |
|                                |              | WBT               | 44                        | 46                              | -2       | -4%        | 15.8                     | B                       |                                  |                                     |                         |   |                             | 9                   | 101             |                 |  |
|                                |              | EBR               | 13                        | 12                              | 1        | 7%         | 15.7                     | B                       |                                  |                                     |                         |   |                             | 223                 | 566             |                 |  |
|                                |              | WBL               | 21                        | 21                              | 0        | 0%         | 82.2                     | F                       | 445                              | 77.4                                | E                       |   |                             | 223                 | 566             |                 |  |
|                                |              | WBT               | 402                       | 408                             | -6       | -2%        | 77.4                     | E                       |                                  |                                     |                         |   |                             | 247                 | 600             |                 |  |
|                                |              | NBL               | 13                        | 13                              | 0        | -1%        | 68.8                     | E                       |                                  |                                     |                         |   |                             | 162                 | 590             |                 |  |
|                                |              | NBT               | 40                        | 38                              | 2        | 4%         | 39.1                     | D                       |                                  |                                     |                         |   |                             | 162                 | 590             |                 |  |
|                                |              | SBT               | 814                       | 768                             | 46       | 6%         | 35.2                     | D                       |                                  |                                     |                         |   |                             | 184                 | 623             |                 |  |

### AM Peak - 2025 Build Preferred

| Intersection                      | Control    | Movement | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |
|-----------------------------------|------------|----------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|
| Summerdale Ave and Cheltenham Ave | Signalized | EBL      | 7                         | 7                               | 0        | 2%         | 28.5                     | C                       | 29                               | 17.7                                | B                       | 56.6                                    | E                           | 2                   | 46              |                 |  |
|                                   |            | EBT      | 18                        | 18                              | 0        | -1%        | 13.9                     | B                       |                                  |                                     |                         |   |                             | 2                   | 46              |                 |  |
|                                   |            | EBR      | 4                         | 4                               | 0        | 0%         | 15.6                     | B                       |                                  |                                     |                         |   |                             | 2                   | 46              |                 |  |
|                                   |            | WBL      | 12                        | 11                              | 1        | 6%         | 17.0                     | B                       | 45                               | 17.5                                | B                       |   |                             | 3                   | 59              |                 |  |
|                                   |            | WBT      | 26                        | 28                              | -1       | -5%        | 15.6                     | B                       |                                  |                                     |                         |   |                             | 3                   | 59              |                 |  |
|                                   |            | WBR      | 7                         | 7                               | 1        | 10%        | 26.5                     | C                       |                                  |                                     |                         |   |                             | 3                   | 59              |                 |  |
|                                   |            | NBL      | 5                         | 5                               | 0        | 1%         | 90.1                     | F                       | 430                              | 88.2                                | F                       |   |                             | 250                 | 570             |                 |  |
|                                   |            | NBT      | 419                       | 410                             | 9        | 2%         | 88.4                     | F                       |                                  |                                     |                         |   |                             | 250                 | 570             |                 |  |
|                                   |            | NBR      | 14                        | 13                              | 0        | 3%         | 81.1                     | F                       |                                  |                                     |                         |   |                             | 250                 | 570             |                 |  |
|                                   |            | SBL      | 24                        | 24                              | 0        | 1%         | 42.5                     | D                       | 859                              | 44.2                                | D                       |   |                             | 226                 | 699             |                 |  |
|                                   |            | SBT      | 865                       | 818                             | 47       | 5%         | 44.2                     | D                       |                                  |                                     |                         |   |                             | 226                 | 699             |                 |  |
|                                   |            | SBR      | 17                        | 14                              | 3        | 16%        | 45.2                     | D                       |                                  |                                     |                         |   |                             | 226                 | 699             |                 |  |
| Summerdale Ave and Oxford Ave     | Signalized | EBL      | 22                        | 22                              | 0        | 2%         | 20.6                     | C                       | 609                              | 17.8                                | B                       | 63.2                                    | E                           | 42                  | 361             |                 |  |
|                                   |            | EBT      | 317                       | 310                             | 7        | 2%         | 17.0                     | B                       |                                  |                                     |                         |   |                             | 42                  | 361             |                 |  |
|                                   |            | EBR      | 270                       | 275                             | -4       | -2%        | 18.4                     | B                       |                                  |                                     |                         |   |                             | 42                  | 361             |                 |  |
|                                   |            | WBL      | 4                         | 4                               | 1        | 17%        | 27.4                     | C                       | 377                              | 12.8                                | B                       |   |                             | 18                  | 190             |                 |  |
|                                   |            | WBT      | 357                       | 356                             | 1        | 0%         | 12.6                     | B                       |                                  |                                     |                         |   |                             | 18                  | 190             |                 |  |
|                                   |            | WBR      | 17                        | 17                              | 0        | -2%        | 12.9                     | B                       |                                  |                                     |                         |   |                             | 18                  | 190             |                 |  |
|                                   |            | NBL      | 138                       | 129                             | 8        | 6%         | 210.8                    | F                       | 401                              | 160.0                               | F                       |   |                             | 401                 | 694             |                 |  |
|                                   |            | NBT      | 282                       | 269                             | 14       | 5%         | 135.6                    | F                       |                                  |                                     |                         |   |                             | 401                 | 694             |                 |  |
|                                   |            | NBR      | 0                         | 0                               | 0        | N/A        | 33.4                     | C                       |                                  |                                     |                         |   |                             | 401                 | 694             |                 |  |
|                                   |            | SBL      | 63                        | 57                              | 6        | 9%         | 79.6                     | E                       | 626                              | 75.8                                | E                       |   |                             | 306                 | 610             |                 |  |
|                                   |            | SBT      | 612                       | 561                             | 51       | 8%         | 75.4                     | E                       |                                  |                                     |                         |   |                             | 306                 | 610             |                 |  |
|                                   |            | SBR      | 7                         | 7                               | 0        | 2%         | 79.2                     | E                       |                                  |                                     |                         |   |                             | 306                 | 610             |                 |  |

### PM Peak - 2025 No-Build

| Intersection                                       | Control    | Movement              | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |
|--|------------|-----------------------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|
| Roosevelt Blvd & Front St                          | Signalized | WBL1                  | 89                        | 93                              | -4       | -5%        | 1.3                      | A                       | 795                              | 9.1                                 | A                       | 37.4                                    | D                           | 91                  | 197             |                 |
|  |            | WBL2                  | 42                        | 42                              | 0        | 0%         | 2.5                      | A                       |                                  |                                     |                         |   |                             | 91                  | 197             |                 |
|  |            | WBT                   | 647                       | 641                             | 6        | 1%         | 9.9                      | A                       |                                  |                                     |                         |   |                             | 91                  | 197             |                 |
|  |            | WBR1                  | 13                        | 13                              | 0        | -2%        | 36.2                     | D                       |                                  |                                     |                         |   |                             | 70                  | 406             |                 |
|  |            | WBR2                  | 5                         | 5                               | 0        | -6%        | 37.2                     | D                       |                                  |                                     |                         |   |                             | 70                  | 406             |                 |
|  |            | NBIL1                 | 210                       | 207                             | 4        | 2%         | 74.4                     | E                       |                                  |                                     |                         |   |                             | 380                 | 456             |                 |
|  |            | NBIT                  | 2419                      | 2383                            | 36       | 1%         | 76.6                     | E                       |                                  |                                     |                         |   |                             | 475                 | 456             |                 |
|  |            | NBOT                  | 1827                      | 1828                            | -1       | 0%         | 27.8                     | C                       |                                  |                                     |                         |   |                             | 475                 | 74              |                 |
|  |            | SBIT                  | 2128                      | 2108                            | 20       | 1%         | 18.4                     | B                       |                                  |                                     |                         |   |                             | 315                 | 92              |                 |
|  |            | SBOT                  | 1103                      | 1085                            | 18       | 2%         | 18.8                     | B                       |                                  |                                     |                         |   |                             | 350                 | 54              |                 |
| Roosevelt Blvd & Rising Sun Ave                    | Signalized | SBOR                  | 64                        | 62                              | 3        | 4%         | 19.3                     | B                       | 1155                             | 18.9                                | B                       | 37.4                                    | D                           | 350                 | 54              |                 |
|  |            | EBL1 (I)              | 15                        | 15                              | 0        | 0%         | 11.5                     | B                       |                                  |                                     |                         |   |                             | 36                  | 208             |                 |
|  |            | EBL2 (O)              | 33                        | 31                              | 2        | 5%         | 22.8                     | C                       |                                  |                                     |                         |   |                             | 36                  | 208             |                 |
|  |            | EBT                   | 180                       | 180                             | 0        | 0%         | 90.6                     | F                       |                                  |                                     |                         |   |                             | 212                 | 707             |                 |
|  |            | EBR1 (I)              | 132                       | 128                             | 4        | 3%         | 92.3                     | F                       |                                  |                                     |                         |   |                             | 212                 | 707             |                 |
|  |            | EBR2 (O)              | 63                        | 62                              | 1        | 1%         | 91.6                     | F                       |                                  |                                     |                         |   |                             | 212                 | 707             |                 |
|  |            | WBL1 (I)              | 20                        | 20                              | 0        | 2%         | 14.6                     | B                       | 422                              | 83.3                                | F                       | 21.3                                    | C                           | 60                  | 42              |                 |
|  |            | WBL2 (O)              | 11                        | 11                              | 0        | -1%        | 13.4                     | B                       |                                  |                                     |                         |   |                             | 60                  | 42              |                 |
|  |            | WBT                   | 370                       | 369                             | 1        | 0%         | 58.5                     | E                       |                                  |                                     |                         |   |                             | 60                  | 224             |                 |
|  |            | WBR1 (I)              | 88                        | 88                              | 0        | 0%         | 61.6                     | E                       |                                  |                                     |                         |   |                             | 60                  | 224             |                 |
|  |            | WBR2 (O)              | 73                        | 72                              | 1        | 1%         | 59.1                     | E                       |                                  |                                     |                         |   |                             | 60                  | 224             |                 |
|  |            | NBIL                  | 226                       | 223                             | 3        | 2%         | 27.7                     | C                       |                                  |                                     |                         |   |                             | 205                 | 140             |                 |
|  |            | NBIT                  | 2206                      | 2192                            | 14       | 1%         | 10.7                     | B                       |                                  |                                     |                         |   |                             | 245                 | 140             |                 |
|  |            | NBOT                  | 1763                      | 1763                            | 0        | 0%         | 8.9                      | A                       |                                  |                                     |                         |   |                             | 230                 | 10              |                 |
|  |            | SBIL                  | 178                       | 175                             | 3        | 2%         | 30.2                     | C                       |                                  |                                     |                         |   |                             | 250                 | 70              |                 |
| Roosevelt Blvd & C Street                          | Signalized | SBIT                  | 1976                      | 1960                            | 16       | 1%         | 22.8                     | C                       | 567                              | 56.6                                | E                       | 23.6                                    | C                           | 1235                | 70              |                 |
|  |            | SBOT                  | 1093                      | 1073                            | 20       | 2%         | 15.4                     | B                       |                                  |                                     |                         |   |                             | 1180                | 36              |                 |
|  |            | SBOR                  | 56                        | 55                              | 1        | 2%         | 14.9                     | B                       |                                  |                                     |                         |   |                             | 1180                | 36              |                 |
|  |            | EBL1 (I)              | 82                        | 81                              | 1        | 1%         | 9.7                      | A                       |                                  |                                     |                         |   |                             | 38                  | 208             |                 |
|  |            | EBL2 (O)              | 130                       | 128                             | 2        | 2%         | 13.4                     | B                       |                                  |                                     |                         |   |                             | 38                  | 208             |                 |
|  |            | EBT                   | 377                       | 377                             | 0        | 0%         | 69.9                     | E                       |                                  |                                     |                         |   |                             | 137                 | 603             |                 |
|  |            | EBR1 (I)              | 29                        | 29                              | 0        | 0%         | 70.2                     | E                       |                                  |                                     |                         |   |                             | 137                 | 603             |                 |
|  |            | EBR2 (O)              | 15                        | 16                              | -1       | -3%        | 70.5                     | E                       |                                  |                                     |                         |   |                             | 137                 | 603             |                 |
|  |            | WBL1 (I)              | 45                        | 45                              | 0        | 0%         | 7.3                      | A                       | 415                              | 60.8                                | E                       | 23.6                                    | C                           | 6                   | 98              |                 |
| Roosevelt Blvd & Rorer St - D St                   | Signalized | WBL2 (O)              | 21                        | 19                              | 2        | 9%         | 6.7                      | A                       |                                  |                                     |                         |   |                             | 6                   | 98              |                 |
|  |            | WBT                   | 271                       | 271                             | 0        | 0%         | 68.9                     | E                       |                                  |                                     |                         |   |                             | 147                 | 557             |                 |
|  |            | WBR1 (I)              | 58                        | 55                              | 3        | 4%         | 73.3                     | E                       |                                  |                                     |                         |   |                             | 147                 | 557             |                 |
|  |            | WBR2 (O)              | 24                        | 24                              | 0        | 0%         | 83.5                     | F                       |                                  |                                     |                         |   |                             | 147                 | 557             |                 |
|  |            | NBIL1                 | 47                        | 46                              | 1        | 3%         | 22.4                     | C                       | 2295                             | 22.6                                | C                       | 6.5                                     | A                           | 1335                | 87              |                 |
|  |            | NBIT                  | 2262                      | 2249                            | 13       | 1%         | 22.6                     | C                       |                                  |                                     |                         |   |                             | 1335                | 87              |                 |
|  |            | NBOT                  | 1843                      | 1843                            | 0        | 0%         | 21.7                     | C                       |                                  |                                     |                         |   |                             | 1375                | 74              |                 |
|  |            | NBOR                  | 47                        | 45                              | 2        | 5%         | 13.3                     | B                       |                                  |                                     |                         |   |                             | 1375                | 74              |                 |
|  |            | SBIL                  | 160                       | 159                             | 1        | 1%         | 30.5                     | C                       |                                  |                                     |                         |   |                             | 255                 | 17              |                 |
|  |            | SBIT                  | 1980                      | 1966                            | 14       | 1%         | 15.1                     | B                       |                                  |                                     |                         |   |                             | 775                 | 41              |                 |
|  |            | SBOT                  | 1213                      | 1196                            | 18       | 1%         | 16.0                     | B                       |                                  |                                     |                         |   |                             | 785                 | 49              |                 |
|  |            | SBOR                  | 193                       | 192                             | 1        | 1%         | 16.5                     | B                       |                                  |                                     |                         |   |                             | 785                 | 49              |                 |
|  |            | EBR (from D St)       | 15                        | 15                              | 0        | 1%         | 3.7                      | A                       | 1354                             | 6.4                                 | A                       | 6.5                                     | A                           | 0                   | 35              |                 |
| Roosevelt Blvd & F Street                          | Signalized | EBR (from Bingham St) | 156                       | 156                             | 0        | 0%         | 10.9                     | B                       |                                  |                                     |                         |   |                             | 7                   | 121             |                 |
|  |            | WBR                   | 37                        | 37                              | 0        | 0%         | 2.5                      | A                       |                                  |                                     |                         |   |                             | 0                   | 32              |                 |
|  |            | NBIT                  | 2402                      | 2387                            | 15       | 1%         | 6.1                      | A                       |                                  |                                     |                         |   |                             | 680                 | 19              |                 |
|  |            | NBOT                  | 1989                      | 1984                            | 5        | 0%         | 6.8                      | A                       |                                  |                                     |                         |   |                             | 680                 | 24              |                 |
|  |            | NBOR                  | 3                         | 3                               | 0        | -10%       | 11.3                     | B                       |                                  |                                     |                         |   |                             | 680                 | 24              |                 |
|  |            | SBIT                  | 2140                      | 2126                            | 14       | 1%         | 6.4                      | A                       |                                  |                                     |                         |   |                             | 1150                | 17              |                 |
|  |            | SBOT                  | 1213                      | 1194                            | 19       | 2%         | 6.2                      | A                       |                                  |                                     |                         |   |                             | 1160                | 15              |                 |
|  |            | SBOR (to D St)        | 64                        | 60                              | 5        | 7%         | 8.0                      | A                       |                                  |                                     |                         |   |                             | 1160                | 15              |                 |
|  |            | SBOR (to Bingham St)  | 81                        | 85                              | -4       | -4%        | 8.0                      | A                       |                                  |                                     |                         |   |                             | 1160                | 15              |                 |
| Roosevelt Blvd & Whitaker Ave (South) - Garland St | Signalized | EBL1 (I)              | 46                        | 46                              | 0        | -1%        | 8.6                      | A                       | 615                              | 51.0                                | D                       | 23.1                                    | C                           | 15                  | 174             |                 |
|  |            | EBL2 (O)              | 102                       | 105                             | -3       | -3%        | 8.9                      | A                       |                                  |                                     |                         |   |                             | 15                  | 174             |                 |
|  |            | EBL3                  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 15                  | 174             |                 |
|  |            | EBT                   | 361                       | 364                             | -3       | -1%        | 64.2                     | E                       |                                  |                                     |                         |   |                             | 136                 | 567             |                 |
|  |            | EBR1 (I)              | 100                       | 97                              | 3        | 3%         | 67.3                     | E                       |                                  |                                     |                         |   |                             | 136                 | 567             |                 |
|  |            | EBR2 (O)              | 3                         | 3                               | 0        | 10%        | 50.2                     | D                       |                                  |                                     |                         |   |                             | 136                 | 567             |                 |
|  |            | WBL1 (I)              | 21                        | 21                              | 0        | 1%         | 2.5                      | A                       |                                  |                                     |                         |   |                             | 35                  | 182             |                 |
|  |            | WBL2 (O)              | 52                        | 53                              | -1       | -2%        | 6.8                      | A                       | 463                              | 45.9                                | D                       | 23.1                                    | C                           | 119                 | 511             |                 |
|  |            | WBT                   | 380                       | 372                             | 8        | 2%         | 53.5                     | D                       |                                  |                                     |                         |   |                             | 119                 | 511             |                 |
| Roosevelt Blvd & Whitaker Ave (South) - Garland St | Signalized | WBR1 (I)              | 8                         | 7                               | 1        | 13%        | 52.3                     | D                       |                                  |                                     |                         |   |                             | 119                 | 511             |                 |
|  |            | WBR2 (O)              | 11                        | 11                              | 1        | 5%         | 54.3                     | D                       |                                  |                                     |                         |   |                             | 170                 | 419             |                 |
|  |            | NBIL1                 | 240                       | 239                             | 1        | 0%         | 71.0                     | E                       | 2623                             | 24.3                                | C                       | 38.7                                    | D                           | 1275                | 81              |                 |
|  |            | NBIT                  | 2411                      | 2383                            | 28       | 1%         | 19.6                     | B                       |                                  |                                     |                         |   |                             | 1275                | 46              |                 |
|  |            | NBOT                  | 1740                      | 1745                            | -4       | 0%         | 14.4                     | B                       |                                  |                                     |                         |   |                             | 1275                | 46              |                 |
|  |            | NBOBR                 | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 1275                | 46              |                 |
|  |            | NBOR                  | 37                        | 36                              | 1        | 3%         | 16.9                     | B                       |                                  |                                     |                         |   |                             | 1275                | 46              |                 |
|  |            | SBIL                  | 94                        | 94                              | 0        | 0%         | 26.2                     | C                       |                                  |                                     |                         |   |                             | 1050                | 79              |                 |
|  |            | SBIT                  | 2138                      | 2123                            | 14       | 1%         | 19.9                     | B                       |                                  |                                     |                         |   |                             | 1050                | 79              |                 |
|  |            | SBOT                  | 1184                      | 1161                            | 23       | 2%         | 15.4                     | B                       |                                  |                                     |                         |   |                             | 1000                | 41              |                 |
|  |            | SBOR                  | 81                        | 82                              | -1       | -1%        | 19.6                     | B                       |                                  |                                     |                         |   |                             | 1000                | 316             |                 |
| Roosevelt Blvd & Whitaker Ave (South) - Garland St | Signalized | EBR                   | 16                        | 16                              | 0        | 0%         | 0.8                      | A                       | 16                               | 0.8                                 | A                       | 38.7                                    | D                           | 0                   | 0               |                 |
|  |            | WBR1 (I)              | 478                       | 399                             | 79       | 16%        | 315.8                    | F                       |                                  |                                     |                         |   |                             | 627                 | 1213            |                 |
|  |            | WBR2 (O)              | 137                       | 119                             | 18       | 13%        | 287.0                    | F                       |                                  |                                     |                         |   |                             | 627                 | 1213            |                 |
|  |            | NBIT                  | 2465                      | 2416                            | 49       | 2%         | 36.3                     | D                       | 519                              |                                     |                         |   |                             |                     |                 |                 |

### PM Peak - 2025 No-Build

| Intersection                                      | Control    | Movement  | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |
|---|------------|-----------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|
| Roosevelt Blvd & Whitaker Ave (North) - Adams Ave | Signalized | EBL1 (I)  | 113                       | 113                             | 0        | 0%         | 6.3                      | A                       | 875                              | 18.5                                | B                       | 19.8                                    | B                           | 11                  | 134             |                 |  |
|   |            | EBL2 (O)  | 417                       | 420                             | -3       | -1%        | 5.6                      | A                       |                                  |                                     |                         |   |                             | 11                  | 134             |                 |  |
|   |            | EPR1 (I)  | 309                       | 304                             | 5        | 2%         | 39.0                     | D                       |                                  |                                     |                         |   |                             | 69                  | 270             |                 |  |
|   |            | EPR2 (O)  | 28                        | 30                              | -2       | -5%        | 38.5                     | D                       |                                  |                                     |                         |   |                             | 77                  | 283             |                 |  |
|   |            | NBIU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 58                  | 326             |                 |  |
|   |            | NBIU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 58                  | 326             |                 |  |
|   |            | NBIL      | 390                       | 361                             | 29       | 7%         | 34.4                     | C                       | 2811                             | 19.9                                | B                       |   |                             | 245                 | 58              |                 |  |
|   |            | NBIT      | 2553                      | 2450                            | 103      | 4%         | 17.8                     | B                       |                                  |                                     |                         |   |                             | 265                 | 173             |                 |  |
|   |            | NBOT      | 1941                      | 1910                            | 32       | 2%         | 13.8                     | B                       |                                  |                                     |                         |   |                             | 290                 | 57              |                 |  |
|   |            | SBIT      | 2116                      | 2099                            | 17       | 1%         | 24.0                     | C                       |                                  |                                     |                         |   |                             | 780                 | 98              |                 |  |
|   |            | SBOT      | 1499                      | 1469                            | 31       | 2%         | 16.5                     | B                       |                                  |                                     |                         |   |                             | 800                 | 89              |                 |  |
|   |            | SBOR      | 633                       | 617                             | 16       | 2%         | 33.9                     | C                       |                                  |                                     |                         |   |                             | 800                 | 89              |                 |  |
| Roosevelt Blvd & Tower Blvd                       | Signalized | EBR       | 165                       | 165                             | 0        | 0%         | 29.6                     | C                       | 165                              | 29.6                                | C                       | 10.2                                    | B                           | 17                  | 108             |                 |  |
|   |            | NBIU1 (I) | 1                         | 1                               | 0        | 40%        | 37.5                     | D                       | 204                              | 80.3                                | F                       |   |                             | 35                  | 162             |                 |  |
|   |            | NBIU2 (O) | 1                         | 1                               | 0        | 40%        | 49.2                     | D                       |                                  |                                     |                         |   |                             | 34                  | 161             |                 |  |
|   |            | NBIL      | 215                       | 202                             | 13       | 6%         | 80.5                     | F                       |                                  |                                     |                         |   |                             | 320                 | 38              |                 |  |
|   |            | SBIT      | 2115                      | 2102                            | 12       | 1%         | 3.2                      | A                       | 2102                             | 3.2                                 | A                       |   |                             | 580                 | 2               |                 |  |
|   |            | SBOT      | 1966                      | 1913                            | 53       | 3%         | 8.6                      | A                       | 580                              | 23                                  |                         |   |                             |                     |                 |                 |  |
|   |            | SBOR      | 100                       | 101                             | -1       | -1%        | 12.4                     | B                       | 2034                             | 8.8                                 | A                       |   |                             | 580                 | 23              |                 |  |
| Roosevelt Blvd & Langdon St                       | Signalized | EBL1 (I)  | 133                       | 121                             | 12       | 9%         | 4.1                      | A                       | 893                              | 89.5                                | F                       | 65.3                                    | E                           | 3                   | 208             |                 |  |
|   |            | EBL2 (O)  | 308                       | 295                             | 13       | 4%         | 2.4                      | A                       |                                  |                                     |                         |   |                             | 2                   | 219             |                 |  |
|   |            | EBT       | 447                       | 419                             | 28       | 6%         | 164.7                    | F                       |                                  |                                     |                         |   |                             | 200                 | 388             |                 |  |
|   |            | EPR1 (I)  | 54                        | 53                              | 1        | 2%         | 170.5                    | F                       |                                  |                                     |                         |   |                             | 388                 | 573             |                 |  |
|   |            | EPR2 (O)  | 5                         | 5                               | 1        | 10%        | 157.8                    | F                       |                                  |                                     |                         |   |                             | 388                 | 573             |                 |  |
|   |            | WBL1 (I)  | 30                        | 31                              | -1       | -4%        | 12.3                     | B                       | 182                              | 35.9                                | D                       |   |                             | 2                   | 106             |                 |  |
|   |            | WBL2 (O)  | 35                        | 34                              | 1        | 3%         | 10.0                     | B                       |                                  |                                     |                         |   |                             | 1                   | 98              |                 |  |
|   |            | WBT       | 75                        | 75                              | 0        | 0%         | 51.2                     | D                       |                                  |                                     |                         |   |                             | 200                 | 30              |                 |  |
|   |            | WBR1 (I)  | 18                        | 17                              | 1        | 7%         | 49.4                     | D                       |                                  |                                     |                         |   |                             | 30                  | 159             |                 |  |
|   |            | WBR2 (O)  | 24                        | 25                              | -1       | -4%        | 45.7                     | D                       |                                  |                                     |                         |   |                             | 30                  | 159             |                 |  |
|   |            | NBLU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 2350                             | 84.8                                | F                       |   |                             | 12                  | 118             |                 |  |
|   |            | NBLU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 12                  | 118             |                 |  |
|   |            | NBIL      | 53                        | 53                              | 0        | 0%         | 179.0                    | F                       |                                  |                                     |                         |   |                             | 190                 | 12              |                 |  |
|   |            | NBIT      | 2427                      | 2297                            | 130      | 5%         | 82.7                     | F                       |                                  |                                     |                         |   |                             | 1525                | 599             |                 |  |
|   |            | NBOT      | 2320                      | 2268                            | 53       | 2%         | 97.6                     | F                       |                                  |                                     |                         |   |                             | 1525                | 643             |                 |  |
|   |            | NBOR      | 7                         | 9                               | -2       | -24%       | 163.9                    | F                       |                                  |                                     |                         |   |                             | 1480                | 643             |                 |  |
|   |            | SBLU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 2088                             | 21.4                                | C                       |   |                             | 2                   | 38              |                 |  |
|   |            | SBLU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 2                   | 38              |                 |  |
|   |            | SBIL      | 7                         | 7                               | 0        | -4%        | 42.9                     | D                       |                                  |                                     |                         |   |                             | 220                 | 2               |                 |  |
|   |            | SBIT      | 2098                      | 2081                            | 17       | 1%         | 21.4                     | C                       |                                  |                                     |                         |   |                             | 400                 | 92              |                 |  |
|   |            | SBOT      | 1959                      | 1914                            | 45       | 2%         | 45.1                     | D                       |                                  |                                     |                         |   |                             | 415                 | 253             |                 |  |
|   |            | SBOR      | 359                       | 349                             | 10       | 3%         | 48.1                     | D                       |                                  |                                     |                         |   |                             | 415                 | 253             |                 |  |
| Roosevelt Blvd & Summerdale Ave - Adams Ave       | Signalized | EBL1 (I)  | 3                         | 3                               | 0        | -7%        | 35.8                     | D                       | 683                              | 98.3                                | F                       | 61.4                                    | E                           | 0                   | 28              |                 |  |
|   |            | EBL2 (O)  | 7                         | 7                               | 0        | -6%        | 35.5                     | D                       |                                  |                                     |                         |   |                             | 0                   | 40              |                 |  |
|   |            | EBT       | 222                       | 226                             | -4       | -2%        | 68.6                     | E                       |                                  |                                     |                         |   |                             | 1700                | 247             |                 |  |
|   |            | EPR1 (I)  | 239                       | 231                             | 9        | 4%         | 82.5                     | F                       |                                  |                                     |                         |   |                             | 300                 | 247             |                 |  |
|   |            | EPR2 (O)  | 227                       | 215                             | 12       | 5%         | 149.6                    | F                       |                                  |                                     |                         |   |                             | 300                 | 247             |                 |  |
|   |            | WBL1 (I)  | 71                        | 70                              | 2        | 2%         | 35.2                     | D                       | 835                              | 28.1                                | C                       |   |                             | 730                 | 216             |                 |  |
|   |            | WBL2 (O)  | 434                       | 431                             | 3        | 1%         | 45.5                     | D                       |                                  |                                     |                         |   |                             | 730                 | 216             |                 |  |
|   |            | WBT       | 308                       | 310                             | -2       | -1%        | 0.6                      | A                       |                                  |                                     |                         |   |                             | 120                 | 0               |                 |  |
|   |            | WBR1 (I)  | 7                         | 8                               | -1       | -17%       | 57.5                     | E                       |                                  |                                     |                         |   |                             | 730                 | 12              |                 |  |
|   |            | WBR2 (O)  | 8                         | 10                              | -2       | -21%       | 57.7                     | E                       |                                  |                                     |                         |   |                             | 730                 | 250             |                 |  |
|   |            | NBLU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 2426                             | 49.7                                | D                       |   |                             | 353                 | 535             |                 |  |
|   |            | NBLU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 315                 | 353             |                 |  |
|   |            | NBIL      | 370                       | 317                             | 53       | 14%        | 300.3                    | F                       |                                  |                                     |                         |   |                             | 450                 | 51              |                 |  |
|   |            | NBIT      | 2208                      | 2110                            | 98       | 4%         | 12.1                     | B                       |                                  |                                     |                         |   |                             | 450                 | 8               |                 |  |
|   |            | NBOT      | 2090                      | 2039                            | 51       | 2%         | 19.7                     | B                       | 2611                             | 22.7                                | C                       |   |                             | 450                 | 83              |                 |  |
|   |            | NBOR      | 562                       | 548                             | 14       | 2%         | 33.8                     | C                       | 80                               | 296                                 |                         |   |                             |                     |                 |                 |  |
|   |            | SBLU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 1901                             | 49.4                                | D                       |   |                             | 125                 | 80              |                 |  |
|   |            | SBLU2 (O) | 3                         | 3                               | 0        | -7%        | 144.9                    | F                       |                                  |                                     |                         |   |                             | 1950                | 146             |                 |  |
|   |            | SBIL      | 105                       | 109                             | -4       | -4%        | 150.5                    | F                       |                                  |                                     |                         |   |                             | 1950                | 628             |                 |  |
|   |            | SBIT      | 1795                      | 1789                            | 6        | 0%         | 43.1                     | D                       |                                  |                                     |                         |   |                             | 1950                | 1360            |                 |  |
|   |            | SBOT      | 1657                      | 1623                            | 34       | 2%         | 147.6                    | F                       |                                  |                                     |                         |   |                             | 101                 | 628             |                 |  |
|   |            | SBOR      | 101                       | 95                              | 6        | 6%         | 207.1                    | F                       |                                  |                                     |                         |   |                             | 101                 | 360             |                 |  |
| Roosevelt Blvd & Pratt Street                     | Signalized | EBL1 (I)  | 41                        | 40                              | 1        | 2%         | 9.3                      | A                       | 265                              | 30.0                                | C                       | 29.2                                    | C                           | 18                  | 170             |                 |  |
|   |            | EBL2 (O)  | 36                        | 35                              | 1        | 3%         | 11.8                     | B                       |                                  |                                     |                         |   |                             | 37                  | 229             |                 |  |
|   |            | EBT       | 154                       | 151                             | 3        | 2%         | 38.0                     | D                       |                                  |                                     |                         |   |                             | 37                  | 229             |                 |  |
|   |            | EPR1 (I)  | 13                        | 13                              | 0        | -3%        | 36.0                     | D                       |                                  |                                     |                         |   |                             | 37                  | 229             |                 |  |
|   |            | EPR2 (O)  | 22                        | 23                              | -1       | -4%        | 37.5                     | D                       |                                  |                                     |                         |   |                             | 31                  | 216             |                 |  |
|   |            | WBL1 (I)  | 95                        | 90                              | 5        | 6%         | 4.3                      | A                       | 616                              | 103.3                               | F                       |   |                             | 31                  | 216             |                 |  |
|   |            | WBL2 (O)  | 151                       | 152                             | -1       | -1%        | 6.5                      | A                       |                                  |                                     |                         |   |                             | 411                 | 659             |                 |  |
|   |            | WBT       | 327                       | 315                             | 12       | 4%         | 170.7                    | F                       |                                  |                                     |                         |   |                             | 411                 | 659             |                 |  |
|   |            | WBR1 (I)  | 23                        | 22                              | 1        | 4%         | 164.9                    | F                       |                                  |                                     |                         |   |                             | 411                 | 659             |                 |  |
|   |            | WBR2 (O)  | 17                        | 15                              | 2        | 12%        | 171.3                    | F                       |                                  |                                     |                         |   |                             | 411                 | 659             |                 |  |
|   |            | NBIL      | 79                        | 79                              | 0        | 0%         | 78.1                     | E                       | 2373                             | 28.1                                | C                       |   |                             | 140                 | 90              |                 |  |
|   |            | NBIT      | 2380                      | 2294                            | 86       | 4%         | 26.4                     | C                       | 2011                             | 30.0                                | C                       |   |                             | 2270                | 90              |                 |  |
|   |            | NBOT      | 1834                      | 1781                            | 53       | 3%         | 27.7                     | C                       |                                  |                                     |                         |   |                             | 2300                | 86              |                 |  |
|   |            | NBOR      | 217                       | 217                             | 0        | 0%         | 48.7                     | D                       |                                  |                                     |                         |   |                             | 2300                | 86              |                 |  |
|   |            | SBIL      | 58                        | 56                              | 2        | 4%         | 26.1                     | C                       | 2023                             | 18.0                                | B                       |   |                             | 500                 | 56              |                 |  |
|   |            | SBIT      | 1974                      | 1967                            | 7        | 0%         | 17.8                     | B                       | 500                              | 324                                 |                         |   |                             |                     |                 |                 |  |
|   |            | SBOT      | 1331                      | 1344                            | -13      | -1%        | 14.4                     | B                       | 500                              | 31                                  |                         |   |                             |                     |                 |                 |  |
|   |            | SBOR      | 26                        |                                 |          |            |                          |                         |                                  |                                     |                         |   |                             |                     |                 |                 |  |

**PM Peak - 2025 No-Build**

| Intersection                      | Control      | Movement          | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |  |
|-----------------------------------|--------------|-------------------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|--|--|
| Adams Ave & Ramona Ave            | Signalized   | EBL               | 260                       | 262                             | -2       | -1%        | 48.0                     | D                       | 719                              | 48.2                                | D                       | 28.4                                    | C                           |                     | 181             | 875             |  |  |  |
|                                   |              | EET               | 450                       | 451                             | -1       | 0%         | 48.3                     | D                       |                                  |                                     |                         |   |                             |                     | 181             | 875             |  |  |  |
|                                   |              | EBR               | 5                         | 6                               | -1       | -12%       | 48.6                     | D                       |                                  |                                     |                         |   |                             |                     | 170             | 860             |  |  |  |
|                                   |              | WBL               | 1                         | 1                               | 0        | -14%       | 27.6                     | C                       | 26                               | 25.8                                | C                       |   |                             |                     | 1               | 58              |  |  |  |
|                                   |              | WBT               | 12                        | 11                              | 1        | 5%         | 32.3                     | C                       |                                  |                                     |                         |   |                             |                     | 1               | 58              |  |  |  |
|                                   |              | WBR               | 14                        | 14                              | 0        | 0%         | 20.4                     | C                       |                                  |                                     |                         |   |                             |                     | 3               | 75              |  |  |  |
|                                   |              | NBL               | 21                        | 24                              | -3       | -13%       | 29.5                     | C                       | 607                              | 18.9                                | B                       |   |                             |                     | 25              | 196             |  |  |  |
|                                   |              | NBT               | 554                       | 550                             | 4        | 1%         | 18.5                     | B                       |                                  |                                     |                         |   |                             |                     | 25              | 196             |  |  |  |
|                                   |              | NBR               | 28                        | 26                              | 2        | 8%         | 17.3                     | B                       |                                  |                                     |                         |   |                             |                     | 52              | 253             |  |  |  |
|                                   |              | SEB               | 8                         | 10                              | -2       | -21%       | 29.4                     | C                       | 872                              | 18.7                                | B                       |   |                             |                     | 57              | 427             |  |  |  |
|                                   |              | SBT               | 527                       | 523                             | 4        | 1%         | 23.8                     | C                       |                                  |                                     |                         |   |                             |                     | 57              | 427             |  |  |  |
|                                   |              | SBR               | 343                       | 336                             | 7        | 2%         | 10.5                     | B                       |                                  |                                     |                         |   |                             |                     | 57              | 427             |  |  |  |
| Summerdale Ave and Godfrey Ave    | Unsignalized | EET               | 6                         | 7                               | -1       | -8%        | 24.2                     | C                       | 209                              | 14.0                                | B                       | 35.2                                    | E                           |                     | 11              | 141             |  |  |  |
|                                   |              | EBR               | 204                       | 203                             | 1        | 1%         | 13.7                     | B                       |                                  |                                     |                         |   |                             |                     | 17              | 159             |  |  |  |
|                                   |              | WBL               | 7                         | 9                               | -2       | -25%       | 29.0                     | D                       |                                  |                                     |                         |   |                             |                     | 1               | 49              |  |  |  |
|                                   |              | WBT               | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 14                               | 27.0                                | D                       |   |                             |                     | 1               | 57              |  |  |  |
|                                   |              | WBR to Pratt      | 2                         | 2                               | 0        | -14%       | 19.4                     | C                       |                                  |                                     |                         |   |                             |                     | 1               | 38              |  |  |  |
|                                   |              | WBR to Summerdale | 2                         | 3                               | 0        | -19%       | 26.9                     | D                       |                                  |                                     |                         |   |                             |                     | 1               | 38              |  |  |  |
|                                   |              | NBL               | 196                       | 182                             | 15       | 7%         | 44.0                     | E                       | 670                              | 46.7                                | E                       |   |                             |                     | 126             | 809             |  |  |  |
|                                   |              | NBT               | 532                       | 468                             | 64       | 12%        | 48.0                     | E                       |                                  |                                     |                         |   |                             |                     | 152             | 872             |  |  |  |
|                                   |              | NBR               | 23                        | 20                              | 3        | 12%        | 42.2                     | E                       |                                  |                                     |                         |   |                             |                     | 127             | 816             |  |  |  |
|                                   |              | SEB               | 9                         | 9                               | 1        | 8%         | 40.3                     | E                       | 482                              | 28.6                                | D                       |   |                             |                     | 76              | 510             |  |  |  |
|                                   |              | SBT               | 478                       | 473                             | 5        | 1%         | 28.4                     | D                       |                                  |                                     |                         |   |                             |                     | 76              | 510             |  |  |  |
| Summerdale Ave and Pratt St       | Signalized   | EET               | 6                         | 6                               | 0        | -2%        | 17.1                     | B                       | 41                               | 16.0                                | B                       | 35.4                                    | D                           |                     | 3               | 76              |  |  |  |
|                                   |              | EET               | 36                        | 34                              | 1        | 4%         | 15.8                     | B                       |                                  |                                     |                         |   |                             |                     | 3               | 76              |  |  |  |
|                                   |              | WBL to Summerdale | 5                         | 6                               | 0        | -9%        | 24.6                     | C                       |                                  |                                     |                         |   |                             |                     | 6               | 106             |  |  |  |
|                                   |              | WBL to Godfrey    | 1                         | 1                               | 0        | 5%         | 11.0                     | B                       | 92                               | 16.0                                | B                       |   |                             |                     | 6               | 106             |  |  |  |
|                                   |              | WBT               | 45                        | 41                              | 4        | 9%         | 17.5                     | B                       |                                  |                                     |                         |   |                             |                     | 6               | 106             |  |  |  |
|                                   |              | WBR               | 42                        | 41                              | 1        | 3%         | 13.4                     | B                       | 494                              | 47.8                                | D                       |   |                             |                     | 13              | 141             |  |  |  |
|                                   |              | NBT               | 505                       | 468                             | 37       | 7%         | 48.0                     | D                       |                                  |                                     |                         |   |                             |                     | 152             | 872             |  |  |  |
|                                   |              | NBR               | 27                        | 26                              | 1        | 5%         | 44.7                     | D                       |                                  |                                     |                         |   |                             |                     | 165             | 904             |  |  |  |
|                                   |              | SEB               | 35                        | 37                              | -2       | -7%        | 34.5                     | C                       | 531                              | 28.6                                | C                       |   |                             |                     | 76              | 510             |  |  |  |
|                                   |              | SBT               | 481                       | 473                             | 8        | 2%         | 28.4                     | C                       |                                  |                                     |                         |   |                             |                     | 76              | 510             |  |  |  |
|                                   |              | SBR               | 17                        | 18                              | -1       | -7%        | 22.3                     | C                       |                                  |                                     |                         |   |                             |                     | 69              | 498             |  |  |  |
| Summerdale Ave and Bridge St      | Signalized   | EET               | 7                         | 7                               | 0        | -1%        | 16.5                     | B                       | 94                               | 15.4                                | B                       | 18.2                                    | B                           |                     | 7               | 102             |  |  |  |
|                                   |              | EET               | 78                        | 78                              | 0        | -1%        | 15.1                     | B                       |                                  |                                     |                         |   |                             |                     | 7               | 102             |  |  |  |
|                                   |              | EBR               | 9                         | 8                               | 1        | 11%        | 17.0                     | B                       |                                  |                                     |                         |   |                             |                     | 7               | 102             |  |  |  |
|                                   |              | WBL               | 26                        | 25                              | 1        | 5%         | 18.3                     | B                       | 119                              | 16.8                                | B                       |   |                             |                     | 9               | 113             |  |  |  |
|                                   |              | WBT               | 51                        | 51                              | 0        | 1%         | 16.4                     | B                       |                                  |                                     |                         |   |                             |                     | 9               | 113             |  |  |  |
|                                   |              | WBR               | 42                        | 43                              | -1       | -3%        | 16.4                     | B                       | 512                              | 16.0                                | B                       |   |                             |                     | 9               | 113             |  |  |  |
|                                   |              | NBL               | 11                        | 10                              | 0        | 2%         | 22.0                     | C                       |                                  |                                     |                         |   |                             |                     | 37              | 323             |  |  |  |
|                                   |              | NBT               | 509                       | 474                             | 35       | 7%         | 16.0                     | B                       |                                  |                                     |                         |   |                             |                     | 37              | 323             |  |  |  |
|                                   |              | NBR               | 24                        | 24                              | 1        | 3%         | 14.3                     | B                       | 535                              | 21.1                                | C                       |   |                             |                     | 37              | 323             |  |  |  |
|                                   |              | SEB               | 27                        | 29                              | -2       | -7%        | 25.9                     | C                       |                                  |                                     |                         |   |                             |                     | 50              | 381             |  |  |  |
|                                   |              | SBT               | 490                       | 495                             | -5       | -1%        | 20.9                     | C                       |                                  |                                     |                         |   |                             |                     | 50              | 381             |  |  |  |
|                                   |              | SBR               | 8                         | 8                               | 1        | 6%         | 19.7                     | B                       |                                  |                                     |                         |   |                             |                     | 50              | 381             |  |  |  |
| Summerdale Ave and Sanger St      | Signalized   | EET               | 4                         | 5                               | 0        | -10%       | 13.9                     | B                       | 31                               | 13.3                                | B                       | 15.3                                    | B                           |                     | 2               | 55              |  |  |  |
|                                   |              | EET               | 21                        | 22                              | -1       | -2%        | 14.9                     | B                       |                                  |                                     |                         |   |                             |                     | 2               | 55              |  |  |  |
|                                   |              | EBR               | 6                         | 5                               | 1        | 21%        | 5.7                      | A                       |                                  |                                     |                         |   |                             |                     | 5               | 87              |  |  |  |
|                                   |              | WBL               | 17                        | 17                              | 0        | 0%         | 16.8                     | B                       | 44                               | 14.0                                | B                       |   |                             |                     | 3               | 58              |  |  |  |
|                                   |              | WBT               | 14                        | 14                              | 0        | -1%        | 17.2                     | B                       |                                  |                                     |                         |   |                             |                     | 3               | 58              |  |  |  |
|                                   |              | WBR               | 14                        | 14                              | 0        | 0%         | 7.3                      | A                       | 514                              | 15.6                                | B                       |   |                             |                     | 6               | 87              |  |  |  |
|                                   |              | NBL               | 9                         | 9                               | 1        | 6%         | 19.7                     | B                       |                                  |                                     |                         |   |                             |                     | 36              | 308             |  |  |  |
|                                   |              | NBT               | 522                       | 488                             | 34       | 6%         | 15.6                     | B                       |                                  |                                     |                         |   |                             |                     | 36              | 308             |  |  |  |
|                                   |              | NBR               | 13                        | 13                              | 0        | 0%         | 13.4                     | B                       | 517                              | 15.2                                | B                       |   |                             |                     | 50              | 342             |  |  |  |
|                                   |              | SEB               | 8                         | 8                               | 0        | 4%         | 19.2                     | B                       |                                  |                                     |                         |   |                             |                     | 34              | 322             |  |  |  |
|                                   |              | SBT               | 491                       | 499                             | -8       | -2%        | 15.2                     | B                       |                                  |                                     |                         |   |                             |                     | 47              | 355             |  |  |  |
|                                   |              | SBR               | 7                         | 7                               | 0        | -1%        | 13.3                     | B                       |                                  |                                     |                         |   |                             |                     | 47              | 355             |  |  |  |
| Summerdale Ave and Cheltenham Ave | Signalized   | EET               | 6                         | 6                               | 1        | 10%        | 15.5                     | B                       | 27                               | 13.3                                | B                       | 14.7                                    | B                           |                     | 2               | 52              |  |  |  |
|                                   |              | EET               | 16                        | 16                              | -1       | -4%        | 12.3                     | B                       |                                  |                                     |                         |   |                             |                     | 2               | 52              |  |  |  |
|                                   |              | EBR               | 5                         | 5                               | 0        | 5%         | 13.9                     | B                       |                                  |                                     |                         |   |                             |                     | 2               | 52              |  |  |  |
|                                   |              | WBL               | 21                        | 22                              | -1       | -5%        | 16.0                     | B                       | 43                               | 15.7                                | B                       |   |                             |                     | 3               | 51              |  |  |  |
|                                   |              | WBT               | 16                        | 15                              | 1        | 3%         | 16.6                     | B                       |                                  |                                     |                         |   |                             |                     | 3               | 51              |  |  |  |
|                                   |              | WBR               | 6                         | 6                               | 0        | 6%         | 12.3                     | B                       | 503                              | 16.8                                | B                       |   |                             |                     | 39              | 440             |  |  |  |
|                                   |              | NBL               | 8                         | 8                               | 1        | 6%         | 24.7                     | C                       |                                  |                                     |                         |   |                             |                     | 39              | 440             |  |  |  |
|                                   |              | NBT               | 512                       | 481                             | 32       | 6%         | 16.7                     | B                       |                                  |                                     |                         |   |                             |                     | 39              | 440             |  |  |  |
|                                   |              | NBR               | 12                        | 11                              | 1        | 6%         | 17.4                     | B                       | 517                              | 12.7                                | B                       |   |                             |                     | 26              | 252             |  |  |  |
|                                   |              | SEB               | 6                         | 7                               | -1       | -13%       | 16.1                     | B                       |                                  |                                     |                         |   |                             |                     | 26              | 252             |  |  |  |
|                                   |              | SBT               | 487                       | 496                             | -8       | -2%        | 12.7                     | B                       |                                  |                                     |                         |   |                             |                     | 26              | 252             |  |  |  |
|                                   |              | SBR               | 12                        | 11                              | 0        | 3%         | 8.7                      | A                       |                                  |                                     |                         |   |                             |                     | 26              | 252             |  |  |  |
| Summerdale Ave and Oxford Ave     | Signalized   | EET               | 23                        | 21                              | 2        | 8%         | 21.5                     | C                       | 649                              | 18.2                                | B                       | 25.4                                    | C                           |                     | 47              | 435             |  |  |  |
|                                   |              | EET               | 448                       | 440                             | 8        | 2%         | 18.5                     | B                       |                                  |                                     |                         |   |                             |                     | 47              | 435             |  |  |  |
|                                   |              | EBR               | 179                       | 184                             | -6       | -3%        | 17.1                     | B                       |                                  |                                     |                         |   |                             |                     | 47              | 435             |  |  |  |
|                                   |              | WBL               | 6                         | 5                               | 1        | 14%        | 20.3                     | C                       | 350                              | 12.6                                | B                       |   |                             |                     | 16              | 194             |  |  |  |
|                                   |              | W                 |                           |                                 |          |            |                          |                         |                                  |                                     |                         |   |                             |                     |                 |                 |  |  |  |

### PM Peak - 2025 Build-Screen 6

| Intersection                          | Control    | Movement              | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|---------------------------------------|------------|-----------------------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Front St             | Signalized | WBL1                  | 89                        | 91                              | -2       | -2%        | 1.0                      | A                       | 741                              | 9.7                                 | A                       | 46.0                                    | D                           | 19                  | 174             |                 |  |  |
|                                       |            | WBL2                  | 42                        | 41                              | 1        | 2%         | 2.4                      | A                       |                                  |                                     |                         |   |                             | 19                  | 174             |                 |  |  |
|                                       |            | WBT                   | 741                       | 595                             | 146      | 20%        | 7.8                      | A                       |                                  |                                     |                         |   |                             | 19                  | 174             |                 |  |  |
|                                       |            | WBR1                  | 13                        | 10                              | 3        | 26%        | 218.0                    | F                       |                                  |                                     |                         |   |                             | 124                 | 432             |                 |  |  |
|                                       |            | WBR2                  | 5                         | 4                               | 1        | 16%        | 63.3                     | E                       |                                  |                                     |                         |   |                             | 124                 | 432             |                 |  |  |
|                                       |            | NBIL1                 | 304                       | 168                             | 136      | 45%        | 117.1                    | F                       | 1386                             | 120.5                               | F                       |   |                             | 380                 | 8               | 90              |  |  |
|                                       |            | NBIT                  | 2325                      | 1218                            | 1108     | 48%        | 121.0                    | F                       |                                  |                                     |                         |   |                             | 475                 | 1225            | 2430            |  |  |
|                                       |            | NBOT                  | 1836                      | 894                             | 942      | 51%        | 47.1                     | D                       |                                  |                                     |                         |   |                             | 475                 | 1175            | 2421            |  |  |
|                                       |            | SBIT                  | 2145                      | 1575                            | 570      | 27%        | 14.3                     | B                       |                                  |                                     |                         |   |                             | 315                 | 42              | 236             |  |  |
|                                       |            | SBOT                  | 1086                      | 869                             | 217      | 20%        | 16.2                     | B                       |                                  |                                     |                         |   |                             | 350                 | 40              | 202             |  |  |
|                                       |            | SBOR                  | 64                        | 47                              | 17       | 26%        | 17.5                     | B                       | 924                              | 16.2                                | B                       |   |                             | 350                 | 40              | 202             |  |  |
| Roosevelt Blvd & Rising Sun Ave       | Signalized | EBL1 (I)              | 15                        | 8                               | 8        | 50%        | 101.2                    | F                       |                                  |                                     |                         |   |                             | 79                  | 227             |                 |  |  |
|                                       |            | EBL2 (O)              | 33                        | 17                              | 16       | 49%        | 74.5                     | E                       |                                  |                                     |                         |   |                             | 79                  | 227             |                 |  |  |
|                                       |            | EBT                   | 180                       | 126                             | 54       | 30%        | 52.5                     | D                       |                                  |                                     |                         |   |                             | 264                 | 808             |                 |  |  |
|                                       |            | EBr1 (I)              | 132                       | 93                              | 39       | 29%        | 49.8                     | D                       |                                  |                                     |                         |   |                             | 264                 | 808             |                 |  |  |
|                                       |            | EBr2 (O)              | 63                        | 45                              | 18       | 28%        | 47.6                     | D                       |                                  |                                     |                         |   |                             | 264                 | 808             |                 |  |  |
|                                       |            | WBL1 (I)              | 20                        | 13                              | 7        | 35%        | 8.4                      | A                       |                                  |                                     |                         |   |                             | 60                  | 7               | 98              |  |  |
|                                       |            | WBL2 (O)              | 11                        | 7                               | 4        | 39%        | 11.2                     | B                       |                                  |                                     |                         |   |                             | 60                  | 7               | 98              |  |  |
|                                       |            | WBT                   | 370                       | 230                             | 140      | 38%        | 68.9                     | E                       | 351                              | 71.7                                | E                       |   |                             | 60                  | 330             | 565             |  |  |
|                                       |            | WBR1 (I)              | 88                        | 51                              | 37       | 42%        | 97.4                     | F                       |                                  |                                     |                         |   |                             | 60                  | 330             | 565             |  |  |
|                                       |            | WBR2 (O)              | 73                        | 46                              | 27       | 37%        | 83.7                     | F                       |                                  |                                     |                         |   |                             | 60                  | 330             | 565             |  |  |
|                                       |            | NBIL                  | N/A                       | N/A                             | N/A      | N/A        | -                        | N/A                     |                                  |                                     |                         |   |                             | N/A                 | N/A             | 384             |  |  |
|                                       |            | NBIT                  | 2338                      | 1195                            | 1143     | 49%        | 40.3                     | D                       |                                  |                                     |                         |   |                             | 245                 | 192             | 384             |  |  |
|                                       |            | NBOT                  | 1772                      | 838                             | 934      | 53%        | 10.9                     | B                       | 843                              | 10.9                                | B                       |   |                             | 230                 | 139             | 302             |  |  |
|                                       |            | SBIL                  | 178                       | 97                              | 81       | 45%        | 60.8                     | E                       |                                  |                                     |                         |   |                             | 250                 | 169             | 561             |  |  |
|                                       |            | SBIT                  | 1993                      | 1467                            | 526      | 26%        | 42.1                     | D                       |                                  |                                     |                         |   |                             | 600                 | 169             | 561             |  |  |
|                                       |            | SBOT                  | 1076                      | 865                             | 212      | 20%        | 38.0                     | D                       |                                  |                                     |                         |   |                             | 600                 | 102             | 434             |  |  |
|                                       |            | SBOR                  | 188                       | 116                             | 73       | 39%        | 16.8                     | B                       |                                  |                                     |                         |   |                             | 600                 | 102             | 434             |  |  |
| Roosevelt Blvd & B St Michigan U-Turn | Signalized | WBR                   | 10                        | 10                              | 0        | 0%         | 0.8                      | A                       | 10                               | 0.8                                 | A                       | 19.8                                    | B                           | 0                   | 20              |                 |  |  |
|                                       |            | NBIU1 (I)             | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 275                 | 27              | 187             |  |  |
|                                       |            | NBIU2 (O)             | 132                       | 72                              | 60       | 45%        | 58.9                     | E                       |                                  |                                     |                         |   |                             | 275                 | 27              | 187             |  |  |
|                                       |            | NBIT                  | 2309                      | 1102                            | 1207     | 52%        | 44.5                     | D                       |                                  |                                     |                         |   |                             | 620                 | 186             | 344             |  |  |
|                                       |            | NBOT                  | 1887                      | 841                             | 1046     | 55%        | 26.9                     | C                       |                                  |                                     |                         |   |                             | 620                 | 469             | 866             |  |  |
|                                       |            | NBOR                  | 2                         | 1                               | 1        | 55%        | 21.2                     | C                       | 847                              | 26.9                                | C                       |   |                             | 620                 | 469             | 866             |  |  |
|                                       |            | SBIT                  | 2171                      | 1579                            | 592      | 27%        | 6.0                      | A                       |                                  |                                     |                         |   |                             | 450                 | 4               | 180             |  |  |
|                                       |            | SBOT                  | 1132                      | 905                             | 227      | 20%        | 4.4                      | A                       | 913                              | 4.4                                 | A                       |   |                             | 450                 | 2               | 133             |  |  |
| Roosevelt Blvd & C Street             | Signalized | EBL1 (I)              | 82                        | 36                              | 46       | 56%        | 81.6                     | F                       | 295                              | 101.2                               | F                       | 57.7                                    | E                           | 121                 | 220             |                 |  |  |
|                                       |            | EBL2 (O)              | 131                       | 54                              | 77       | 59%        | 45.8                     | D                       |                                  |                                     |                         |   |                             | 121                 | 220             |                 |  |  |
|                                       |            | EBT                   | 377                       | 176                             | 201      | 53%        | 122.7                    | F                       |                                  |                                     |                         |   |                             | 390                 | 609             |                 |  |  |
|                                       |            | EBr1 (I)              | 29                        | 14                              | 15       | 53%        | 79.7                     | E                       |                                  |                                     |                         |   |                             | 390                 | 609             |                 |  |  |
|                                       |            | EBr2 (O)              | 15                        | 7                               | 8        | 55%        | 134.1                    | F                       |                                  |                                     |                         |   |                             | 390                 | 609             |                 |  |  |
|                                       |            | WBL1 (I)              | 45                        | 19                              | 26       | 58%        | 6.6                      | A                       | 178                              | 133.4                               | F                       |   |                             | 5                   | 83              |                 |  |  |
|                                       |            | WBL2 (O)              | 21                        | 9                               | 12       | 56%        | 5.9                      | A                       |                                  |                                     |                         |   |                             | 5                   | 83              |                 |  |  |
|                                       |            | WBT                   | 271                       | 116                             | 155      | 57%        | 155.3                    | F                       |                                  |                                     |                         |   |                             | 522                 | 820             |                 |  |  |
|                                       |            | WBR1 (I)              | 58                        | 25                              | 33       | 57%        | 172.2                    | F                       |                                  |                                     |                         |   |                             | 522                 | 820             |                 |  |  |
|                                       |            | WBR2 (O)              | 24                        | 10                              | 14       | 59%        | 140.9                    | F                       |                                  |                                     |                         |   |                             | 527                 | 825             |                 |  |  |
|                                       |            | NBIL                  | 47                        | 22                              | 25       | 53%        | 111.1                    | F                       | 1050                             | 105.1                               | F                       |   |                             | 640                 | 405             | 683             |  |  |
|                                       |            | NBIT                  | 2262                      | 1028                            | 1234     | 55%        | 104.9                    | F                       |                                  |                                     |                         |   |                             | 640                 | 405             | 683             |  |  |
|                                       |            | NBOT                  | 1852                      | 795                             | 1057     | 57%        | 41.0                     | D                       |                                  |                                     |                         |   |                             | 640                 | 391             | 677             |  |  |
|                                       |            | NBOR                  | 47                        | 21                              | 26       | 56%        | 14.1                     | B                       |                                  |                                     |                         |   |                             | 640                 | 391             | 677             |  |  |
|                                       |            | SBIL                  | 161                       | 65                              | 96       | 60%        | 71.5                     | E                       |                                  |                                     |                         |   |                             | 255                 | 273             | 710             |  |  |
|                                       |            | SBIT                  | 1957                      | 1424                            | 533      | 27%        | 33.6                     | C                       | 1489                             | 35.3                                | D                       |   |                             | 775                 | 310             | 767             |  |  |
|                                       |            | SBOT                  | 1236                      | 994                             | 243      | 20%        | 32.7                     | C                       |                                  |                                     |                         |   |                             | 785                 | 103             | 574             |  |  |
|                                       |            | SBOR                  | 193                       | 140                             | 53       | 27%        | 33.3                     | C                       |                                  |                                     |                         |   |                             | 785                 | 103             | 574             |  |  |
|                                       |            | EBR (from D St)       | 15                        | 15                              | 0        | 1%         | 3.2                      | A                       | 15                               | 3.2                                 | A                       | 40.5                                    | D                           | 0                   | 41              |                 |  |  |
|                                       |            | EBR (from Bingham St) | 156                       | 157                             | -1       | 0%         | 9.3                      | A                       |                                  |                                     |                         |   |                             | 5                   | 121             |                 |  |  |
|                                       |            | WBR                   | 37                        | 33                              | 4        | 10%        | 11.7                     | B                       |                                  |                                     |                         |   |                             | 14                  | 95              |                 |  |  |
|                                       |            | NBIT                  | 2402                      | 1013                            | 1389     | 58%        | 132.4                    | F                       |                                  |                                     |                         |   |                             | 680                 | 524             | 837             |  |  |
|                                       |            | NBOT                  | 1998                      | 805                             | 1193     | 60%        | 38.0                     | D                       |                                  |                                     |                         |   |                             | 680                 | 513             | 826             |  |  |
| Roosevelt Blvd & Rorer St - D St      | Signalized | NBOR                  | 3                         | 2                               | 1        | 40%        | 15.0                     | B                       | 815                              | 37.9                                | D                       | 40.5                                    | D                           | 680                 | 513             | 826             |  |  |
|                                       |            | SBIT                  | 2118                      | 1496                            | 622      | 29%        | 7.9                      | A                       |                                  |                                     |                         |   |                             | 1150                | 105             | 563             |  |  |
|                                       |            | SBOT                  | 1236                      | 929                             | 307      | 25%        | 6.0                      | A                       |                                  |                                     |                         |   |                             | 1160                | 6               | 112             |  |  |
|                                       |            | SBOR (to D St)        | 64                        | 45                              | 19       | 30%        | 6.5                      | A                       |                                  |                                     |                         |   |                             | 1160                | 6               | 112             |  |  |
|                                       |            | SBOR (to Bingham St)  | 81                        | 65                              | 16       | 20%        | 5.4                      | A                       |                                  |                                     |                         |   |                             | 1160                | 6               | 112             |  |  |
|                                       |            | EBL1 (I)              | 55                        | 26                              | 29       | 52%        | 143.3                    | F                       | 337                              | 210.0                               | F                       | 107.3                                   | F                           | 117                 | 219             |                 |  |  |
|                                       |            | EBL2 (O)              | 124                       | 64                              | 60       | 48%        | 59.3                     | E                       |                                  |                                     |                         |   |                             | 117                 | 219             |                 |  |  |
|                                       |            | EBL3                  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 117                 | 219             |                 |  |  |
|                                       |            | EBT                   | 361                       | 193                             | 168      | 47%        | 267.8                    | F                       |                                  |                                     |                         |   |                             | 552                 | 856             |                 |  |  |
|                                       |            | EBr1 (I)              | 100                       | 53                              | 48       | 48%        | 215.1                    | F                       |                                  |                                     |                         |   |                             | 552                 | 856             |                 |  |  |
| Roosevelt Blvd & F Street             | Signalized | EBr2 (O)              | 3                         | 2                               | 1        | 43%        | 254.4                    | F                       | 2105                             | 95.6                                | F                       | 107.3                                   | F                           | 10                  | 152             |                 |  |  |
|                                       |            | WBL1 (I)              | 21                        | 19                              | 2        | 10%        | 2.1                      | A                       |                                  |                                     |                         |   |                             | 10                  | 152             |                 |  |  |
|                                       |            | WBL2 (O)              | 52                        | 46                              | 6        | 12%        | 5.7                      | A                       |                                  |                                     |                         |   |                             | 241                 | 647             |                 |  |  |
|                                       |            | WBT                   | 380                       | 325                             | 55       | 14%        | 109.0                    | F                       |                                  |                                     |                         |   |                             | 241                 | 647             |                 |  |  |
|                                       |            | WBR1 (I)              | 8                         | 6                               | 2        | 28%        | 350.8                    | F                       |                                  |                                     |                         |   |                             | 241                 | 647             |                 |  |  |
|                                       |            | WBR2 (O)              | 11                        | 9                               | 2        | 17%        | 100.6                    | F                       | 920                              | 233.7                               | F                       |   |                             | 170                 | 17              | 183             |  |  |
|                                       |            | NBIL1                 | 240                       | 91                              | 149      | 62%        | 190.8                    | F                       |                                  |                                     |                         |   |                             |                     |                 |                 |  |  |

### PM Peak - 2025 Build-Screen 6

| Intersection                                       | Control    | Movement  | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|--|------------|-----------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Whitaker Ave (South) - Garland St | Signalized | EBR       | 16                        | 16                              | 0        | 0%         | 1.0                      | A                       | 16                               | 1.0                                 | A                       | 79.3                                    | E                           | 0                   | 0               |                 |  |  |
|  |            | WBR1 (I)  | 478                       | 119                             | 359      | 75%        | 316.5                    | F                       | 160                              | 318.9                               | F                       |   |                             | 997                 | 1361            |                 |  |  |
|  |            | WBR2 (O)  | 137                       | 41                              | 96       | 70%        | 325.9                    | F                       | 1525                             | 163.7                               | F                       |   |                             | 997                 | 1361            |                 |  |  |
|  |            | NBIT      | 2474                      | 707                             | 1767     | 71%        | 323.9                    | F                       |                                  |                                     |                         |   |                             | 1080                | 983             | 1250            |  |  |
|  |            | NBOT      | 1834                      | 771                             | 1064     | 58%        | 24.3                     | C                       |                                  |                                     |                         |   |                             | 1080                | 101             | 245             |  |  |
|  |            | NBOR      | 60                        | 39                              | 21       | 36%        | 14.1                     | B                       |                                  |                                     |                         |   |                             | 1080                | 101             | 245             |  |  |
|  |            | SBU1 (I)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 105                 | 514             |                 |  |  |
|  |            | SBU2 (O)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 331                              | 44.5                                | D                       |   |                             | 105                 | 514             |                 |  |  |
|  |            | SBL1      | 466                       | 331                             | 135      | 29%        | 44.5                     | D                       |                                  |                                     |                         |   |                             | 320                 | 105             | 514             |  |  |
|  |            | SBIT      | 1961                      | 1489                            | 472      | 24%        | 19.3                     | B                       |                                  |                                     |                         |   |                             | 450                 | 87              | 511             |  |  |
|  |            | SBOT      | 1272                      | 916                             | 356      | 28%        | 9.6                      | A                       |                                  |                                     |                         |   |                             | 470                 | 105             | 516             |  |  |
|  |            | SBOR      | 1                         | 1                               | 0        | 30%        | 3.5                      | A                       |                                  |                                     |                         |   |                             | 470                 | 105             | 516             |  |  |
| Roosevelt Blvd & Whitaker Ave (North) - Adams Ave  | Signalized | EBL1 (I)  | 103                       | 48                              | 56       | 54%        | 183.4                    | F                       | 504                              | 57.4                                | E                       | 57.9                                    | E                           | 134                 | 233             |                 |  |  |
|  |            | EBL2 (O)  | 400                       | 228                             | 172      | 43%        | 38.3                     | D                       |                                  |                                     |                         |   |                             | 134                 | 233             |                 |  |  |
|  |            | EBC1 (I)  | 311                       | 205                             | 106      | 34%        | 50.5                     | D                       |                                  |                                     |                         |   |                             | 59                  | 228             |                 |  |  |
|  |            | EBR2 (O)  | 28                        | 18                              | 10       | 35%        | 44.9                     | D                       |                                  |                                     |                         |   |                             | 65                  | 240             |                 |  |  |
|  |            | NBIU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 18                  | 280             |                 |  |  |
|  |            | NBIU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 751                              | 219.4                               | F                       |   |                             | 18                  | 280             |                 |  |  |
|  |            | NBIL      | 390                       | 98                              | 292      | 75%        | 24.2                     | C                       |                                  |                                     |                         |   |                             | 245                 | 18              | 280             |  |  |
|  |            | NBIT      | 2562                      | 654                             | 1908     | 74%        | 248.5                    | F                       |                                  |                                     |                         |   |                             | 265                 | 536             | 671             |  |  |
|  |            | NBOT      | 1965                      | 816                             | 1149     | 58%        | 22.5                     | C                       |                                  |                                     |                         |   |                             | 290                 | 68              | 316             |  |  |
|  |            | SBIT      | 2116                      | 1654                            | 462      | 22%        | 24.2                     | C                       |                                  |                                     |                         |   |                             | 780                 | 99              | 649             |  |  |
|  |            | SBOT      | 1523                      | 1125                            | 398      | 26%        | 38.2                     | D                       |                                  |                                     |                         |   |                             | 800                 | 199             | 768             |  |  |
|  |            | SBOR      | 609                       | 397                             | 212      | 35%        | 22.5                     | C                       |                                  |                                     |                         |   |                             | 800                 | 199             | 768             |  |  |
| Roosevelt BLvd & Tower Blvd                        | Signalized | EBR       | 165                       | 154                             | 11       | 7%         | 37.0                     | D                       | 154                              | 37.0                                | D                       | 58.6                                    | E                           | 30                  | 150             |                 |  |  |
|  |            | NBIU1 (I) | 1                         | 0                               | 1        | 90%        | 5.4                      | A                       |                                  |                                     |                         |   |                             | 5                   | 120             |                 |  |  |
|  |            | NBIU2 (O) | 1                         | 0                               | 1        | 70%        | 36.9                     | D                       |                                  |                                     |                         |   |                             | 5                   | 119             |                 |  |  |
|  |            | NBIL      | 215                       | 50                              | 165      | 77%        | 253.8                    | F                       |                                  |                                     |                         |   |                             | 320                 | 7               | 121             |  |  |
|  |            | NBIT      | 2448                      | 588                             | 1860     | 76%        | 335.5                    | F                       |                                  |                                     |                         |   |                             | 950                 | 942             | 1106            |  |  |
|  |            | NBOT      | 2365                      | 1044                            | 1321     | 56%        | 30.3                     | C                       | 1058                             | 30.3                                | C                       |   |                             | 950                 | 159             | 699             |  |  |
|  |            | SBU1 (I)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 200                 | 137             | 579             |  |  |
|  |            | SBU1 (O)  | 115                       | 97                              | 18       | 16%        | 115.4                    | F                       |                                  |                                     |                         |   |                             | 200                 | 137             | 579             |  |  |
|  |            | SBIT      | 2115                      | 1675                            | 440      | 21%        | 12.9                     | B                       |                                  |                                     |                         |   |                             | 580                 | 98              | 537             |  |  |
|  |            | SBOT      | 1966                      | 1403                            | 564      | 29%        | 12.0                     | B                       |                                  |                                     |                         |   |                             | 580                 | 64              | 497             |  |  |
|  |            | SBOR      | 100                       | 71                              | 29       | 29%        | 13.4                     | B                       |                                  |                                     |                         |   |                             | 580                 | 63              | 498             |  |  |
| Roosevelt Blvd & Langdon St                        | Signalized | EBL1 (I)  | 133                       | 71                              | 62       | 46%        | 96.0                     | F                       | 549                              | 142.4                               | F                       | 70.8                                    | E                           | 112                 | 236             |                 |  |  |
|  |            | EBL2 (O)  | 308                       | 182                             | 127      | 41%        | 17.8                     | B                       |                                  |                                     |                         |   |                             | 35                  | 233             |                 |  |  |
|  |            | EBC1      | 447                       | 261                             | 186      | 42%        | 236.6                    | F                       |                                  |                                     |                         |   |                             | 200                 | 387             | 561             |  |  |
|  |            | EBR1 (I)  | 54                        | 32                              | 22       | 41%        | 182.3                    | F                       |                                  |                                     |                         |   |                             | 387                 | 561             |                 |  |  |
|  |            | EBR2 (O)  | 5                         | 3                               | 2        | 36%        | 163.8                    | F                       |                                  |                                     |                         |   |                             | 387                 | 561             |                 |  |  |
|  |            | WBL1 (I)  | 30                        | 25                              | 5        | 17%        | 52.1                     | D                       | 142                              | 121.4                               | F                       |   |                             | 28                  | 188             |                 |  |  |
|  |            | WBL2 (O)  | 35                        | 25                              | 10       | 29%        | 78.7                     | E                       |                                  |                                     |                         |   |                             | 27                  | 134             |                 |  |  |
|  |            | WBT       | 75                        | 59                              | 16       | 21%        | 139.7                    | F                       |                                  |                                     |                         |   |                             | 200                 | 89              | 221             |  |  |
|  |            | WBR1 (I)  | 18                        | 13                              | 5        | 29%        | 273.3                    | F                       |                                  |                                     |                         |   |                             | 89                  | 221             |                 |  |  |
|  |            | WBR2 (O)  | 24                        | 21                              | 4        | 15%        | 110.2                    | F                       |                                  |                                     |                         |   |                             | 3                   | 78              |                 |  |  |
|  |            | NBLU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 1165                             | 22.8                                | C                       |   |                             | 3                   | 78              |                 |  |  |
|  |            | NBLU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 190                 | 3               | 78              |  |  |
|  |            | NBIL      | 53                        | 13                              | 40       | 76%        | 244.7                    | F                       |                                  |                                     |                         |   |                             | 1525                | 586             | 668             |  |  |
|  |            | NBIT      | 2426                      | 554                             | 1872     | 77%        | 287.8                    | F                       |                                  |                                     |                         |   |                             | 1525                | 116             | 649             |  |  |
|  |            | NBOT      | 2435                      | 1143                            | 1293     | 53%        | 22.8                     | C                       |                                  |                                     |                         |   |                             | 1480                | 116             | 649             |  |  |
|  |            | NBOR      | 14                        | 8                               | 6        | 41%        | 27.8                     | C                       |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |  |  |
|  |            | SBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |  |  |
|  |            | SBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       | 1791                             | 33.3                                | C                       |   |                             | N/A                 | N/A             |                 |  |  |
|  |            | SBL1      | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | 400                 | 157             | 546             |  |  |
|  |            | SBIT      | 2213                      | 1791                            | 422      | 19%        | 33.3                     | C                       |                                  |                                     |                         |   |                             | 415                 | 273             | 557             |  |  |
|  |            | SBOT      | 1959                      | 1426                            | 533      | 27%        | 45.2                     | D                       |                                  |                                     |                         |   |                             | 415                 | 273             | 557             |  |  |
|  |            | SBOR      | 359                       | 263                             | 96       | 27%        | 32.7                     | C                       |                                  |                                     |                         |   |                             | 950                 | 829             | 1073            |  |  |
| Roosevelt Blvd & Summerdale Ave - Adams Ave        | Signalized | EBL1 (I)  | 3                         | 1                               | 2        | 77%        | 134.6                    | F                       | 271                              | 836.4                               | F                       | 130.8                                   | F                           | 0                   | 7               |                 |  |  |
|  |            | EBL2 (O)  | 7                         | 3                               | 4        | 51%        | 15.9                     | B                       |                                  |                                     |                         |   |                             | 0                   | 7               |                 |  |  |
|  |            | EBC1      | 222                       | 93                              | 129      | 58%        | 684.0                    | F                       |                                  |                                     |                         |   |                             | 1700                | 1609            | 1789            |  |  |
|  |            | EBR1 (I)  | 239                       | 96                              | 143      | 60%        | 720.7                    | F                       |                                  |                                     |                         |   |                             | 300                 | 1609            | 1789            |  |  |
|  |            | EBR2 (O)  | 227                       | 78                              | 149      | 66%        | 1202.2                   | F                       |                                  |                                     |                         |   |                             | 300                 | 1609            | 1789            |  |  |
|  |            | WBL1 (I)  | 71                        | 51                              | 20       | 28%        | 25.3                     | C                       | 618                              | 97.9                                | F                       |   |                             | 730                 | 615             | 906             |  |  |
|  |            | WBL2 (O)  | 434                       | 314                             | 120      | 28%        | 43.0                     | D                       |                                  |                                     |                         |   |                             | 730                 | 615             | 906             |  |  |
|  |            | WBT       | 308                       | 236                             | 72       | 23%        | 171.5                    | F                       |                                  |                                     |                         |   |                             | 120                 | 542             | 957             |  |  |
|  |            | WBR1 (I)  | 7                         | 5                               | 2        | 24%        | 526.8                    | F                       |                                  |                                     |                         |   |                             | 730                 | 324             | 699             |  |  |
|  |            | WBR2 (O)  | 8                         | 6                               | 2        | 23%        | 300.7                    | F                       |                                  |                                     |                         |   |                             | 730                 | 651             | 942             |  |  |
|  |            | NBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |  |  |
|  |            | NBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       | 1648                             | 54.3                                | D                       |   |                             | N/A                 | N/A             |                 |  |  |
|  |            | NBIL      | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |  |  |
|  |            | NBIT      | 2577                      | 626                             | 1951     | 76%        | 226.5                    | F                       |                                  |                                     |                         |   |                             | 450                 | 776             | 852             |  |  |
|  |            | NBOT      | 2100                      | 969                             | 1132     | 54%        | 31.3                     | C                       |                                  |                                     |                         |   |                             | 450                 | 65              | 117             |  |  |
|  |            | NBOR      | 667                       | 393                             | 274      | 41%        | 23.2                     | C                       | 1376                             | 29.0                                | C                       |   |                             | 450                 | 61              | 491             |  |  |
|  |            | SBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |  |  |
|  |            | SBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |  |  |
|  |            | SBL1      | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             |                     |                 |                 |  |  |

PM Peak - 2025 Build-Screen 6

| Intersection                   | Control      | Movement          | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |
|--------------------------------|--------------|-------------------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|
| Roosevelt Blvd & Pratt Street  | Signalized   | EBL1 (I)          | 41                        | 27                              | 14       | 34%        | 5.8                      | A                       | 174                              | 33.0                                | C                       | 77.0                                    | E                           | 42                  | 156             |                 |  |
|                                |              | EBL2 (O)          | 36                        | 24                              | 12       | 34%        | 6.2                      | A                       |                                  |                                     |                         |   |                             | 42                  | 156             |                 |  |
|                                |              | EBT               | 154                       | 100                             | 54       | 35%        | 43.9                     | D                       |                                  |                                     |                         |   |                             | 136                 | 324             |                 |  |
|                                |              | EBr1 (I)          | 13                        | 8                               | 5        | 38%        | 45.4                     | D                       |                                  |                                     |                         |   |                             | 136                 | 324             |                 |  |
|                                |              | EBr2 (O)          | 22                        | 15                              | 7        | 34%        | 45.1                     | D                       |                                  |                                     |                         |   |                             | 136                 | 324             |                 |  |
|                                |              | WBL1 (I)          | 95                        | 81                              | 14       | 15%        | 6.6                      | A                       | 562                              | 30.0                                | C                       |   |                             | 44                  | 160             |                 |  |
|                                |              | WBL2 (O)          | 151                       | 138                             | 13       | 9%         | 9.9                      | A                       |                                  |                                     |                         |   |                             | 44                  | 160             |                 |  |
|                                |              | WBT               | 327                       | 289                             | 38       | 12%        | 45.3                     | D                       |                                  |                                     |                         |   |                             | 150                 | 517             |                 |  |
|                                |              | WBR1 (I)          | 23                        | 20                              | 3        | 11%        | 35.9                     | D                       |                                  |                                     |                         |   |                             | 150                 | 517             |                 |  |
|                                |              | WBR2 (O)          | 17                        | 14                              | 3        | 16%        | 39.8                     | D                       | 789                              | 23.1                                | C                       |   |                             | 140                 | 71              |                 |  |
|                                |              | NBIL              | 79                        | 54                              | 25       | 31%        | 41.4                     | D                       |                                  |                                     |                         |   |                             | 1140                | 71              |                 |  |
|                                |              | NBIT              | 2379                      | 734                             | 1644     | 69%        | 21.8                     | C                       |                                  |                                     |                         |   |                             | 1140                | 128             |                 |  |
|                                |              | NBOT              | 1842                      | 957                             | 886      | 48%        | 22.1                     | C                       |                                  |                                     |                         |   |                             | 1067                | 21.6            |                 |  |
|                                |              | NBOR              | 217                       | 102                             | 115      | 53%        | 17.6                     | B                       | 1860                             | 44.7                                | D                       |   |                             | 500                 | 1259            |                 |  |
|                                |              | SBIL              | 58                        | 50                              | 8        | 13%        | 51.6                     | D                       |                                  |                                     |                         |   |                             | 500                 | 450             |                 |  |
|                                |              | SBIT              | 1974                      | 1810                            | 164      | 8%         | 44.5                     | D                       |                                  |                                     |                         |   |                             | 500                 | 1259            |                 |  |
|                                |              | SBOT              | 1331                      | 1063                            | 268      | 20%        | 256.4                    | F                       |                                  |                                     |                         |   |                             | 1644                | 2458            |                 |  |
|                                |              | SBOR              | 26                        | 21                              | 5        | 19%        | 260.9                    | F                       | 1087                             | 256.5                               | F                       |   |                             | 500                 | 1644            |                 |  |
| Adams Ave & Ramona Ave         | Signalized   | EBL               | 260                       | 178                             | 83       | 32%        | 192.0                    | F                       | 489                              | 193.2                               | F                       | 86.2                                    | F                           | 982                 | 1669            |                 |  |
|                                |              | EBT               | 450                       | 308                             | 143      | 32%        | 194.4                    | F                       |                                  |                                     |                         |   |                             | 982                 | 1669            |                 |  |
|                                |              | EBR               | 5                         | 4                               | 1        | 26%        | 150.2                    | F                       |                                  |                                     |                         |   |                             | 968                 | 1653            |                 |  |
|                                |              | WBL               | 1                         | 1                               | 0        | 24%        | 18.2                     | B                       |                                  |                                     |                         |   |                             | 5                   | 55              |                 |  |
|                                |              | WBT               | 12                        | 7                               | 5        | 43%        | 31.9                     | C                       | 15                               | 30.3                                | C                       |   |                             | 5                   | 55              |                 |  |
|                                |              | WBR               | 14                        | 8                               | 6        | 41%        | 30.2                     | C                       |                                  |                                     |                         |   |                             | 7                   | 73              |                 |  |
|                                |              | NBL               | 21                        | 20                              | 1        | 7%         | 43.5                     | D                       |                                  |                                     |                         |   |                             | 216                 | 825             |                 |  |
|                                |              | NBT               | 554                       | 463                             | 91       | 16%        | 55.8                     | E                       |                                  |                                     |                         |   |                             | 216                 | 825             |                 |  |
|                                |              | NBR               | 28                        | 23                              | 6        | 20%        | 62.9                     | E                       |                                  |                                     |                         |   |                             | 254                 | 882             |                 |  |
|                                |              | SBL               | 8                         | 6                               | 2        | 26%        | 23.9                     | C                       | 493                              | 13.0                                | B                       |   |                             | 21                  | 299             |                 |  |
|                                |              | SBT               | 527                       | 294                             | 234      | 44%        | 16.6                     | B                       |                                  |                                     |                         |   |                             | 21                  | 299             |                 |  |
|                                |              | SBR               | 343                       | 191                             | 152      | 44%        | 7.2                      | A                       |                                  |                                     |                         |   |                             | 21                  | 299             |                 |  |
| Summerdale Ave and Godfrey Ave | Unsignalized | EBT               | 6                         | 5                               | 1        | 21%        | 451.8                    | F                       | 125                              | 502.1                               | F                       | 234.9                                   | F                           | 591                 | 916             |                 |  |
|                                |              | EBR               | 204                       | 120                             | 84       | 41%        | 504.2                    | F                       |                                  |                                     |                         |   |                             | 607                 | 934             |                 |  |
|                                |              | WBL               | 7                         | 6                               | 1        | 14%        | 272.7                    | F                       |                                  |                                     |                         |   |                             | 24                  | 82              |                 |  |
|                                |              | WBT               | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 23                  | 90              |                 |  |
|                                |              | WBR to Pratt      | 2                         | 2                               | 0        | 14%        | 70.0                     | F                       | 9                                | 205.1                               | F                       |   |                             | 18                  | 71              |                 |  |
|                                |              | WBR to Summerdale | 2                         | 1                               | 1        | 43%        | 52.6                     | F                       |                                  |                                     |                         |   |                             | 18                  | 71              |                 |  |
|                                |              | NBL               | 196                       | 83                              | 113      | 58%        | 26.4                     | D                       | 308                              | 30.0                                | D                       |   |                             | 204                 | 593             |                 |  |
|                                |              | NBT               | 532                       | 215                             | 317      | 60%        | 31.4                     | D                       |                                  |                                     |                         |   |                             | 237                 | 673             |                 |  |
|                                |              | NBR               | 23                        | 9                               | 14       | 60%        | 31.0                     | D                       |                                  |                                     |                         |   |                             | 206                 | 600             |                 |  |
|                                |              | SBL               | 9                         | 2                               | 7        | 76%        | 347.6                    | F                       |                                  |                                     |                         |   |                             | 525                 | 609             |                 |  |
|                                |              | SBT               | 478                       | 147                             | 331      | 69%        | 437.0                    | F                       | 150                              | 435.6                               | F                       |   |                             | 525                 | 609             |                 |  |
| Summerdale Ave and Pratt St    | Signalized   | EBL               | 6                         | 4                               | 2        | 32%        | 332.6                    | F                       | 25                               | 398.9                               | F                       | 192.5                                   | F                           | 189                 | 618             |                 |  |
|                                |              | EBT               | 36                        | 20                              | 15       | 43%        | 412.9                    | F                       |                                  |                                     |                         |   |                             | 189                 | 618             |                 |  |
|                                |              | WBL to Summerdale | 5                         | 5                               | 1        | 14%        | 224.7                    | F                       |                                  |                                     |                         |   |                             | 35                  | 250             |                 |  |
|                                |              | WBL to Godfrey    | 1                         | 1                               | 0        | 14%        | 82.6                     | F                       | 73                               | 84.5                                | F                       |   |                             | 35                  | 250             |                 |  |
|                                |              | WBT               | 45                        | 32                              | 13       | 28%        | 78.1                     | E                       |                                  |                                     |                         |   |                             | 35                  | 250             |                 |  |
|                                |              | WBR               | 42                        | 32                              | 10       | 24%        | 71.2                     | E                       | 226                              | 31.4                                | C                       |   |                             | 44                  | 280             |                 |  |
|                                |              | NBT               | 505                       | 215                             | 290      | 57%        | 31.4                     | C                       |                                  |                                     |                         |   |                             | 237                 | 673             |                 |  |
|                                |              | NBR               | 27                        | 10                              | 17       | 62%        | 30.6                     | C                       |                                  |                                     |                         |   |                             | 60                  | 482             |                 |  |
|                                |              | SBL               | 35                        | 12                              | 22       | 65%        | 368.6                    | F                       | 166                              | 427.2                               | F                       |   |                             | 525                 | 609             |                 |  |
|                                |              | SBT               | 481                       | 147                             | 334      | 69%        | 437.0                    | F                       |                                  |                                     |                         |   |                             | 525                 | 609             |                 |  |
|                                |              | SBR               | 17                        | 6                               | 11       | 65%        | 304.6                    | F                       |                                  |                                     |                         |   |                             | 511                 | 595             |                 |  |
| Summerdale Ave and Bridge St   | Signalized   | EBL               | 7                         | 7                               | 0        | 5%         | 50.3                     | D                       | 86                               | 56.4                                | E                       | 151.4                                   | F                           | 40                  | 241             |                 |  |
|                                |              | EBT               | 78                        | 72                              | 6        | 8%         | 44.5                     | D                       |                                  |                                     |                         |   |                             | 40                  | 241             |                 |  |
|                                |              | EBR               | 9                         | 7                               | 2        | 22%        | 177.2                    | F                       |                                  |                                     |                         |   |                             | 40                  | 241             |                 |  |
|                                |              | WBL               | 26                        | 21                              | 5        | 21%        | 215.4                    | F                       | 103                              | 133.4                               | F                       |   |                             | 119                 | 393             |                 |  |
|                                |              | WBT               | 51                        | 45                              | 6        | 12%        | 118.5                    | F                       |                                  |                                     |                         |   |                             | 119                 | 393             |                 |  |
|                                |              | WBR               | 42                        | 38                              | 5        | 11%        | 105.9                    | F                       |                                  |                                     |                         |   |                             | 119                 | 393             |                 |  |
|                                |              | NBL               | 11                        | 5                               | 6        | 54%        | 50.0                     | D                       | 253                              | 25.2                                | C                       |   |                             | 39                  | 365             |                 |  |
|                                |              | NBT               | 509                       | 235                             | 275      | 54%        | 25.0                     | C                       |                                  |                                     |                         |   |                             | 39                  | 365             |                 |  |
|                                |              | NBR               | 24                        | 10                              | 14       | 57%        | 17.2                     | B                       |                                  |                                     |                         |   |                             | 39                  | 365             |                 |  |
|                                |              | SBL               | 27                        | 8                               | 20       | 71%        | 393.6                    | F                       | 152                              | 425.3                               | F                       |   |                             | 535                 | 596             |                 |  |
|                                |              | SBT               | 490                       | 142                             | 348      | 71%        | 428.2                    | F                       |                                  |                                     |                         |   |                             | 535                 | 596             |                 |  |
|                                |              | SBR               | 8                         | 2                               | 6        | 75%        | 344.8                    | F                       |                                  |                                     |                         |   |                             | 535                 | 596             |                 |  |
| Summerdale Ave and Sanger St   | Signalized   | EBL               | 4                         | 4                               | 0        | 0%         | 13.1                     | B                       | 28                               | 48.4                                | D                       | 153.0                                   | F                           | 30                  | 100             |                 |  |
|                                |              | EBT               | 21                        | 19                              | 2        | 8%         | 27.2                     | C                       |                                  |                                     |                         |   |                             | 30                  | 100             |                 |  |
|                                |              | EBR               | 6                         | 4                               | 2        | 35%        | 184.2                    | F                       |                                  |                                     |                         |   |                             | 38                  | 132             |                 |  |
|                                |              | WBL               | 17                        | 13                              | 3        | 20%        | 189.0                    | F                       | 38                               | 105.6                               | F                       |   |                             | 44                  | 159             |                 |  |
|                                |              | WBT               | 14                        | 13                              | 1        | 8%         | 66.2                     | E                       |                                  |                                     |                         |   |                             | 44                  | 159             |                 |  |
|                                |              | WBR               | 14                        | 12                              | 1        | 10%        | 55.2                     | E                       | 274                              | 19.9                                | B                       |   |                             | 54                  | 189             |                 |  |
|                                |              | NBL               | 9                         | 5                               | 5        | 50%        | 38.1                     | D                       |                                  |                                     |                         |   |                             | 31                  | 349             |                 |  |
|                                |              | NBT               | 522                       | 259                             | 263      | 50%        | 19.6                     | B                       | 149                              | 427.4                               | F                       |   |                             | 31                  | 349             |                 |  |
|                                |              | NBR               | 13                        | 7                               | 6        | 48%        | 21.7                     | C                       |                                  |                                     |                         |   |                             | 41                  | 383             |                 |  |
|                                |              | SBL               | 8                         | 2                               | 6        | 71%        | 345.0                    | F                       |                                  |                                     |                         |   |                             | 509                 | 602             |                 |  |
|                                |              | SBT               | 491                       | 144                             | 347      | 71%        | 430.5                    | F                       |                                  |                                     |                         |   |                             | 509                 | 602             |                 |  |
|                                |              | SBR               | 7                         | 2                               | 5        | 74%        | 303.1                    | F                       |                                  |                                     |                         |   |                             | 541                 | 635             |                 |  |

### PM Peak - 2025 Build-Screen 6

| Intersection                      | Control    | Movement | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |
|-----------------------------------|------------|----------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|
| Summerdale Ave and Cheltenham Ave | Signalized | EBL      | 6                         | 5                               | 1        | 16%        | 37.0                     | D                       | 24                               | 63.7                                | E                       | 149.9                                   | F                           | 16                  | 113             |                 |  |
|                                   |            | EET      | 16                        | 14                              | 2        | 10%        | 37.0                     | D                       |                                  |                                     |                         |   |                             | 16                  | 113             |                 |  |
|                                   |            | EBR      | 5                         | 4                               | 1        | 24%        | 193.6                    | F                       | 35                               | 148.3                               | F                       |   |                             | 16                  | 113             |                 |  |
|                                   |            | WBL      | 21                        | 17                              | 4        | 18%        | 205.1                    | F                       |                                  |                                     |                         |   |                             | 52                  | 189             |                 |  |
|                                   |            | WBT      | 16                        | 13                              | 3        | 17%        | 98.6                     | F                       | 274                              | 21.1                                | C                       |   |                             | 52                  | 189             |                 |  |
|                                   |            | WBR      | 6                         | 5                               | 1        | 21%        | 81.8                     | F                       |                                  |                                     |                         |   |                             | 52                  | 189             |                 |  |
|                                   |            | NBL      | 8                         | 4                               | 4        | 52%        | 40.7                     | D                       | 151                              | 396.8                               | F                       |   |                             | 32                  | 411             |                 |  |
|                                   |            | NBT      | 512                       | 260                             | 253      | 49%        | 20.8                     | C                       |                                  |                                     |                         |   |                             | 32                  | 411             |                 |  |
|                                   |            | NBR      | 12                        | 6                               | 5        | 45%        | 23.1                     | C                       | 151                              | 396.8                               | F                       |   |                             | 32                  | 411             |                 |  |
|                                   |            | SEB      | 6                         | 2                               | 5        | 71%        | 255.2                    | F                       |                                  |                                     |                         |   |                             | 580                 | 710             |                 |  |
|                                   |            | SBT      | 487                       | 144                             | 343      | 70%        | 401.6                    | F                       | 275                              | 105.3                               | F                       |   |                             | 580                 | 710             |                 |  |
|                                   |            | SBR      | 12                        | 3                               | 8        | 71%        | 265.0                    | F                       |                                  |                                     |                         |   |                             | 580                 | 710             |                 |  |
| Summerdale Ave and Oxford Ave     | Signalized | EBL      | 23                        | 8                               | 15       | 66%        | 267.8                    | F                       | 255                              | 245.8                               | F                       | 165.8                                   | F                           | 480                 | 677             |                 |  |
|                                   |            | EET      | 448                       | 175                             | 273      | 61%        | 230.2                    | F                       |                                  |                                     |                         |   |                             | 480                 | 677             |                 |  |
|                                   |            | EBR      | 179                       | 70                              | 109      | 61%        | 282.8                    | F                       | 257                              | 62.5                                | E                       |   |                             | 480                 | 677             |                 |  |
|                                   |            | WBL      | 6                         | 4                               | 3        | 41%        | 257.9                    | F                       |                                  |                                     |                         |   |                             | 215                 | 672             |                 |  |
|                                   |            | WBT      | 317                       | 247                             | 71       | 22%        | 102.9                    | F                       | 110                              | 370.4                               | F                       |   |                             | 215                 | 672             |                 |  |
|                                   |            | WBR      | 29                        | 25                              | 5        | 16%        | 105.8                    | F                       |                                  |                                     |                         |   |                             | 215                 | 672             |                 |  |
|                                   |            | NBL      | 141                       | 70                              | 71       | 51%        | 91.5                     | F                       | 275                              | 105.3                               | F                       |   |                             | 83                  | 528             |                 |  |
|                                   |            | NBT      | 355                       | 183                             | 172      | 48%        | 51.8                     | D                       |                                  |                                     |                         |   |                             | 83                  | 528             |                 |  |
|                                   |            | NBR      | 2                         | 1                               | 1        | 52%        | 20.5                     | C                       | 110                              | 370.4                               | F                       |   |                             | 83                  | 528             |                 |  |
|                                   |            | SEL      | 34                        | 11                              | 22       | 67%        | 334.8                    | F                       |                                  |                                     |                         |   |                             | 449                 | 609             |                 |  |
|                                   |            | SBT      | 296                       | 95                              | 201      | 68%        | 373.4                    | F                       | 274                              | 21.1                                | C                       |   |                             | 449                 | 609             |                 |  |
|                                   |            | SBR      | 15                        | 5                               | 10       | 69%        | 394.6                    | F                       |                                  |                                     |                         |   |                             | 449                 | 609             |                 |  |

### PM Peak - 2025 Build-Reduced BAT

| Intersection                          | Control    | Movement              | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |
|---------------------------------------|------------|-----------------------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|
| Roosevelt Blvd & Front St             | Signalized | WBL1                  | 89                        | 93                              | -4       | -4%        | 1.2                      | A                       | 888                              | 10.0                                | B                       | 17.3                                    | B                           | 35                  | 190             |                 |
|                                       |            | WBL2                  | 42                        | 42                              | 0        | 0%         | 3.0                      | A                       |                                  |                                     |                         |   |                             | 35                  | 190             |                 |
|                                       |            | WBT                   | 741                       | 735                             | 6        | 1%         | 10.7                     | B                       |                                  |                                     |                         |   |                             | 35                  | 190             |                 |
|                                       |            | WBR1                  | 13                        | 13                              | 0        | 0%         | 44.3                     | D                       |                                  |                                     |                         |   |                             | 96                  | 428             |                 |
|                                       |            | WBR2                  | 5                         | 5                               | 0        | -2%        | 40.3                     | D                       |                                  |                                     |                         |   |                             | 96                  | 428             |                 |
|                                       |            | NBIL1                 | 304                       | 300                             | 4        | 1%         | 25.7                     | C                       |                                  |                                     |                         |   |                             | 380                 | 13              | 103             |
|                                       |            | NBIT                  | 2325                      | 2312                            | 13       | 1%         | 20.7                     | C                       |                                  |                                     |                         |   |                             | 475                 | 73              | 525             |
|                                       |            | NBOT                  | 1836                      | 1825                            | 12       | 1%         | 22.1                     | C                       |                                  |                                     |                         |   |                             | 475                 | 110             | 573             |
|                                       |            | SBIT                  | 2145                      | 2112                            | 33       | 2%         | 12.7                     | B                       |                                  |                                     |                         |   |                             | 315                 | 49              | 261             |
|                                       |            | SBOT                  | 1086                      | 1068                            | 19       | 2%         | 14.4                     | B                       |                                  |                                     |                         |   |                             | 350                 | 44              | 236             |
|                                       |            | SBOR                  | 64                        | 62                              | 2        | 3%         | 13.8                     | B                       |                                  |                                     |                         |   |                             | 350                 | 44              | 236             |
| Roosevelt Blvd & Rising Sun Ave       | Signalized | EGL1 (I)              | 15                        | 15                              | 0        | 0%         | 10.6                     | B                       | 424                              | 42.2                                | D                       | 23.1                                    | C                           | 29                  | 91              |                 |
|                                       |            | EGL2 (O)              | 33                        | 32                              | 2        | 5%         | 25.9                     | C                       |                                  |                                     |                         |   |                             | 29                  | 91              |                 |
|                                       |            | EBT                   | 180                       | 180                             | 0        | 0%         | 45.0                     | D                       |                                  |                                     |                         |   |                             | 88                  | 450             |                 |
|                                       |            | EGR1 (I)              | 132                       | 130                             | 2        | 1%         | 45.4                     | D                       |                                  |                                     |                         |   |                             | 88                  | 450             |                 |
|                                       |            | EGR2 (O)              | 63                        | 62                              | 1        | 1%         | 43.3                     | D                       |                                  |                                     |                         |   |                             | 88                  | 450             |                 |
|                                       |            | WBL1 (I)              | 20                        | 20                              | 0        | 1%         | 8.0                      | A                       |                                  |                                     |                         |   |                             | 60                  | 2               | 113             |
|                                       |            | WBL2 (O)              | 11                        | 11                              | 0        | -2%        | 12.0                     | B                       |                                  |                                     |                         |   |                             | 60                  | 2               | 113             |
|                                       |            | WBT                   | 370                       | 369                             | 1        | 0%         | 40.5                     | D                       |                                  |                                     |                         |   |                             | 60                  | 148             | 350             |
|                                       |            | WBR1 (I)              | 88                        | 89                              | -1       | -1%        | 40.7                     | D                       | 567                              | 38.7                                | D                       | 23.1                                    | C                           | 60                  | 148             | 350             |
|                                       |            | WBR2 (O)              | 73                        | 72                              | 1        | 2%         | 39.5                     | D                       |                                  |                                     |                         |   |                             | 60                  | 148             | 350             |
|                                       |            | NBIL                  | N/A                       | N/A                             | N/A      | N/A        | -                        | N/A                     |                                  |                                     |                         |   |                             | N/A                 | N/A             | N/A             |
|                                       |            | NBIT                  | 2338                      | 2341                            | -3       | 0%         | 3.6                      | A                       |                                  |                                     |                         |   |                             | 245                 | 11              | 139             |
|                                       |            | NBOT                  | 1772                      | 1759                            | 13       | 1%         | 2.6                      | A                       |                                  |                                     |                         |   |                             | 230                 | 0               | 69              |
|                                       |            | SBIL                  | 178                       | 175                             | 3        | 2%         | 57.9                     | E                       |                                  |                                     |                         |   |                             | 250                 | 201             | 609             |
|                                       |            | SBIT                  | 1993                      | 1961                            | 32       | 2%         | 44.4                     | D                       |                                  |                                     |                         |   |                             | 600                 | 201             | 609             |
|                                       |            | SBOT                  | 1076                      | 1057                            | 20       | 2%         | 40.6                     | D                       |                                  |                                     |                         |   |                             | 600                 | 134             | 487             |
|                                       |            | SBOR                  | 188                       | 191                             | -3       | -1%        | 16.9                     | B                       |                                  |                                     |                         |   |                             | 600                 | 134             | 487             |
| Roosevelt Blvd & B St Michigan U-Turn | Signalized | WBR                   | 10                        | 10                              | 0        | 0%         | 0.7                      | A                       | 2447                             | 0.7                                 | A                       | 5.1                                     | A                           | 0                   | 26              |                 |
|                                       |            | NBIU1 (I)             | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 275                 | 51              | 199             |
|                                       |            | NBIU2 (O)             | 132                       | 136                             | -4       | -3%        | 60.3                     | E                       |                                  |                                     |                         |   |                             | 275                 | 51              | 199             |
|                                       |            | NBIT                  | 2309                      | 2310                            | -1       | 0%         | 1.2                      | A                       |                                  |                                     |                         |   |                             | 620                 | 3               | 78              |
|                                       |            | NBOT                  | 1887                      | 1874                            | 13       | 1%         | 3.6                      | A                       | 1887                             | 3.6                                 | A                       | 5.1                                     | A                           | 620                 | 9               | 162             |
|                                       |            | NBOR                  | 2                         | 2                               | 0        | 5%         | 10.3                     | B                       |                                  |                                     |                         |   |                             | 620                 | 9               | 162             |
|                                       |            | SBIT                  | 2171                      | 2137                            | 34       | 2%         | 7.3                      | A                       |                                  |                                     |                         |   |                             | 450                 | 9               | 200             |
|                                       |            | SBOT                  | 1132                      | 1111                            | 22       | 2%         | 5.1                      | A                       |                                  |                                     |                         |   |                             | 450                 | 4               | 140             |
| Roosevelt Blvd & C Street             | Signalized | EGL1 (I)              | 82                        | 80                              | 2        | 2%         | 10.4                     | B                       | 642                              | 49.0                                | D                       | 24.9                                    | C                           | 34                  | 218             |                 |
|                                       |            | EGL2 (O)              | 131                       | 128                             | 3        | 2%         | 15.7                     | B                       |                                  |                                     |                         |   |                             | 34                  | 218             |                 |
|                                       |            | EBT                   | 377                       | 374                             | 3        | 1%         | 66.2                     | E                       |                                  |                                     |                         |   |                             | 129                 | 565             |                 |
|                                       |            | EGR1 (I)              | 29                        | 29                              | 0        | -1%        | 66.6                     | E                       |                                  |                                     |                         |   |                             | 129                 | 565             |                 |
|                                       |            | EGR2 (O)              | 15                        | 16                              | -1       | -3%        | 76.3                     | E                       |                                  |                                     |                         |   |                             | 129                 | 565             |                 |
|                                       |            | WBL1 (I)              | 45                        | 45                              | 0        | -1%        | 6.6                      | A                       | 417                              | 58.4                                | E                       | 24.9                                    | C                           | 11                  | 108             |                 |
|                                       |            | WBL2 (O)              | 21                        | 19                              | 2        | 8%         | 6.2                      | A                       |                                  |                                     |                         |   |                             | 11                  | 108             |                 |
|                                       |            | WBT                   | 271                       | 272                             | -1       | 0%         | 68.2                     | E                       |                                  |                                     |                         |   |                             | 136                 | 561             |                 |
|                                       |            | WBR1 (I)              | 58                        | 56                              | 2        | 3%         | 68.4                     | E                       |                                  |                                     |                         |   |                             | 136                 | 561             |                 |
|                                       |            | WBR2 (O)              | 24                        | 24                              | 0        | 1%         | 64.2                     | E                       |                                  |                                     |                         |   |                             | 141                 | 566             |                 |
|                                       |            | NBIL                  | 47                        | 47                              | 0        | 0%         | 8.8                      | A                       | 2310                             | 7.6                                 | A                       | 5.0                                     | A                           | 640                 | 27              | 179             |
|                                       |            | NBIT                  | 2262                      | 2263                            | -1       | 0%         | 7.6                      | A                       |                                  |                                     |                         |   |                             | 640                 | 27              | 179             |
|                                       |            | NBOT                  | 1852                      | 1843                            | 9        | 0%         | 10.6                     | B                       |                                  |                                     |                         |   |                             | 640                 | 40              | 340             |
|                                       |            | NBOR                  | 47                        | 45                              | 2        | 4%         | 12.6                     | B                       |                                  |                                     |                         |   |                             | 640                 | 40              | 340             |
|                                       |            | SBIL                  | 161                       | 159                             | 2        | 1%         | 40.1                     | D                       | 2087                             | 37.4                                | D                       | 5.0                                     | A                           | 255                 | 21              | 200             |
|                                       |            | SBIT                  | 1957                      | 1928                            | 29       | 1%         | 37.2                     | D                       |                                  |                                     |                         |   |                             | 775                 | 160             | 697             |
|                                       |            | SBOT                  | 1236                      | 1211                            | 25       | 2%         | 33.4                     | C                       |                                  |                                     |                         |   |                             | 785                 | 131             | 625             |
|                                       |            | SBOR                  | 193                       | 188                             | 5        | 2%         | 33.4                     | C                       |                                  |                                     |                         |   |                             | 785                 | 131             | 625             |
| Roosevelt Blvd & Rorer St - D St      | Signalized | EBR (from D St)       | 15                        | 15                              | 0        | 1%         | 3.3                      | A                       | 15                               | 3.3                                 | A                       | 5.0                                     | A                           | 0                   | 39              |                 |
|                                       |            | EBR (from Bingham St) | 156                       | 157                             | -1       | 0%         | 11.4                     | B                       |                                  |                                     |                         |   |                             | 7                   | 121             |                 |
|                                       |            | WBR                   | 37                        | 37                              | 0        | 1%         | 1.5                      | A                       |                                  |                                     |                         |   |                             | 0                   | 25              |                 |
|                                       |            | NBIT                  | 2402                      | 2401                            | 1        | 0%         | 3.4                      | A                       |                                  |                                     |                         |   |                             | 680                 | 4               | 76              |
|                                       |            | NBOT                  | 1998                      | 1985                            | 13       | 1%         | 4.9                      | A                       |                                  |                                     |                         |   |                             | 680                 | 10              | 167             |
|                                       |            | NBOR                  | 3                         | 4                               | -1       | -17%       | 8.3                      | A                       | 2006                             | 4.9                                 | A                       | 5.0                                     | A                           | 680                 | 10              | 167             |
|                                       |            | SBIT                  | 2118                      | 2086                            | 32       | 2%         | 5.3                      | A                       |                                  |                                     |                         |   |                             | 1150                | 4               | 122             |
|                                       |            | SBOT                  | 1236                      | 1210                            | 26       | 2%         | 6.7                      | A                       |                                  |                                     |                         |   |                             | 1160                | 8               | 132             |
|                                       |            | SBOR (to D St)        | 64                        | 59                              | 5        | 8%         | 6.5                      | A                       | 1369                             | 6.6                                 | A                       | 5.0                                     | A                           | 1160                | 8               | 132             |
|                                       |            | SBOR (to Bingham St)  | 81                        | 85                              | -4       | -5%        | 5.4                      | A                       |                                  |                                     |                         |   |                             | 1160                | 8               | 132             |
| Roosevelt Blvd & F Street             | Signalized | EGL1 (I)              | 55                        | 55                              | 0        | -1%        | 16.6                     | B                       | 644                              | 63.8                                | E                       | 32.4                                    | C                           | 39                  | 198             |                 |
|                                       |            | EGL2 (O)              | 124                       | 127                             | -3       | -3%        | 19.4                     | B                       |                                  |                                     |                         |   |                             | 39                  | 198             |                 |
|                                       |            | EGL3                  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 39                  | 198             |                 |
|                                       |            | EBT                   | 361                       | 363                             | -2       | 0%         | 82.0                     | F                       |                                  |                                     |                         |   |                             | 186                 | 691             |                 |
|                                       |            | EGR1 (I)              | 100                       | 96                              | 4        | 4%         | 80.3                     | F                       |                                  |                                     |                         |   |                             | 186                 | 691             |                 |
|                                       |            | EGR2 (O)              | 3                         | 3                               | 0        | 13%        | 75.4                     | E                       |                                  |                                     |                         |   |                             | 186                 | 691             |                 |
|                                       |            | WBL1 (I)              | 21                        | 21                              | 0        | 0%         | 3.2                      | A                       | 464                              | 39.0                                | D                       | 32.4                                    | C                           | 24                  | 170             |                 |
|                                       |            | WBL2 (O)              | 52                        | 54                              | -2       | -3%        | 9.1                      | A                       |                                  |                                     |                         |   |                             | 24                  | 170             |                 |
|                                       |            | WBT                   | 380                       | 372                             | 8        | 2%         | 45.2                     | D                       |                                  |                                     |                         |   |                             | 102                 | 436             |                 |
|                                       |            | WBR1 (I)              | 8                         | 7                               | 1        | 10%        | 41.7                     | D                       |                                  |                                     |                         |   |                             | 102                 | 436             |                 |
|                                       |            | WBR2 (O)              | 11                        | 11                              | 0        | 2%         | 44.1                     | D                       |                                  |                                     |                         |   |                             | 102                 | 436             |                 |
|                                       |            | NBIL1                 | 240                       | 237                             | 3        | 1%         | 56.3                     | E                       | 2634                             | 13.5                                | B                       | 32.4                                    | C                           | 170                 | 67              | 357             |
|                                       |            | NBIT                  | 2411                      | 2397                            | 14       | 1%         | 9.3</                    |                         |                                  |                                     |                         |   |                             |                     |                 |                 |

### PM Peak - 2025 Build-Reduced BAT

| Intersection                                       | Control    | Movement  | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |
|--|------------|-----------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|
| Roosevelt Blvd & Whitaker Ave (South) - Garland St | Signalized | EBR       | 16                        | 16                              | 0        | 0%         | 1.0                      | A                       | 16                               | 1.0                                 | A                       | 10.1                                    | B                           | 0                   | 0               |                 |
|  |            | WBR1 (I)  | 478                       | 473                             | 5        | 1%         | 44.8                     | D                       | 612                              | 45.0                                | D                       |   |                             | 92                  | 348             |                 |
|  |            | WBR2 (O)  | 137                       | 140                             | -3       | -2%        | 45.6                     | D                       |                                  |                                     |                         |   |                             | 92                  | 348             |                 |
|  |            | NBIT      | 2474                      | 2444                            | 30       | 1%         | 4.8                      | A                       | 4353                             | 5.2                                 | A                       |   |                             | 1080                | 8               | 209             |
|  |            | NBOT      | 1834                      | 1829                            | 6        | 0%         | 5.4                      | A                       |                                  |                                     |                         |   |                             | 1080                | 13              | 123             |
|  |            | NBOR      | 60                        | 63                              | -3       | -5%        | 10.9                     | B                       |                                  |                                     |                         |   |                             | 71                  | 258             |                 |
|  |            | SBU1 (I)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 459                              | 58.4                                | E                       |   |                             | 71                  | 258             |                 |
|  |            | SBU2 (O)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 320                 | 71              | 258             |
|  |            | SBL1      | 466                       | 459                             | 7        | 1%         | 58.4                     | E                       |                                  |                                     |                         |   |                             | 450                 | 21              | 196             |
|  |            | SBIT      | 1961                      | 1940                            | 21       | 1%         | 3.6                      | A                       | 1940                             | 3.6                                 | A                       |   |                             | 470                 | 3               | 90              |
|  |            | SBOT      | 1272                      | 1250                            | 22       | 2%         | 3.0                      | A                       |                                  |                                     |                         |   |                             | 470                 | 3               | 90              |
|  |            | SBOR      | 1                         | 1                               | 0        | 30%        | 0.7                      | A                       |                                  |                                     |                         |   |                             | 470                 | 3               | 90              |
| Roosevelt Blvd & Whitaker Ave (North) - Adams Ave  | Signalized | EBL1 (I)  | 103                       | 104                             | -1       | -1%        | 1.3                      | A                       | 841                              | 16.6                                | B                       | 17.6                                    | B                           | 2                   | 84              |                 |
|  |            | EBL2 (O)  | 400                       | 398                             | 3        | 1%         | 1.6                      | A                       |                                  |                                     |                         |   |                             | 2                   | 84              |                 |
|  |            | EBC1 (I)  | 311                       | 304                             | 7        | 2%         | 39.5                     | D                       |                                  |                                     |                         |   |                             | 61                  | 225             |                 |
|  |            | EBC2 (O)  | 28                        | 27                              | 1        | 3%         | 37.0                     | D                       |                                  |                                     |                         |   |                             | 68                  | 237             |                 |
|  |            | NBIU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 2906                             |                                     |                         |   |                             | 63                  | 353             |                 |
|  |            | NBIU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 63                  | 353             |                 |
|  |            | NBIL      | 390                       | 389                             | 2        | 0%         | 18.8                     | B                       |                                  |                                     |                         |   |                             | 245                 | 63              | 353             |
|  |            | NBIT      | 2562                      | 2518                            | 44       | 2%         | 13.3                     | B                       |                                  |                                     |                         |   |                             | 265                 | 84              | 508             |
|  |            | NBOT      | 1965                      | 1967                            | -1       | 0%         | 10.3                     | B                       |                                  |                                     |                         |   |                             | 290                 | 46              | 381             |
|  |            | SBIT      | 2116                      | 2095                            | 21       | 1%         | 20.6                     | C                       |                                  |                                     |                         |   |                             | 780                 | 83              | 611             |
|  |            | SBOT      | 1523                      | 1493                            | 30       | 2%         | 26.9                     | C                       |                                  |                                     |                         |   |                             | 800                 | 125             | 633             |
|  |            | SBOR      | 609                       | 579                             | 30       | 5%         | 26.4                     | C                       |                                  |                                     |                         |   |                             | 800                 | 125             | 633             |
| Roosevelt BLvd & Tower Blvd                        | Signalized | EBR       | 165                       | 165                             | 0        | 0%         | 27.9                     | C                       | 165                              | 27.9                                | C                       | 13.2                                    | B                           | 17                  | 98              |                 |
|  |            | NBIU1 (I) | 1                         | 1                               | 0        | 30%        | 40.6                     | D                       |                                  |                                     |                         |   |                             | 26                  | 164             |                 |
|  |            | NBIU2 (O) | 1                         | 1                               | 0        | 20%        | 41.7                     | D                       |                                  |                                     |                         |   |                             | 26                  | 164             |                 |
|  |            | NBIL      | 215                       | 219                             | -4       | -2%        | 47.5                     | D                       | 2611                             | 15.2                                | B                       |   |                             | 320                 | 29              | 165             |
|  |            | NBIT      | 2448                      | 2390                            | 58       | 2%         | 12.2                     | B                       |                                  |                                     |                         |   |                             | 950                 | 60              | 444             |
|  |            | NBOT      | 2365                      | 2329                            | 36       | 2%         | 14.5                     | B                       |                                  |                                     |                         |   |                             | 950                 | 74              | 736             |
|  |            | SBU1 (I)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 2355                             | 14.5                                | B                       |   |                             | 200                 | 19              | 207             |
|  |            | SBU1 (O)  | 115                       | 120                             | -5       | -4%        | 34.4                     | C                       |                                  |                                     |                         |   |                             | 200                 | 19              | 207             |
|  |            | SBIT      | 2115                      | 2096                            | 19       | 1%         | 10.5                     | B                       |                                  |                                     |                         |   |                             | 580                 | 34              | 310             |
|  |            | SBOT      | 1966                      | 1906                            | 60       | 3%         | 9.2                      | A                       |                                  |                                     |                         |   |                             | 580                 | 30              | 306             |
|  |            | SBOR      | 100                       | 101                             | -1       | -1%        | 13.9                     | B                       |                                  |                                     |                         |   |                             | 580                 | 29              | 306             |
| Roosevelt Blvd & Langdon St                        | Signalized | EBL1 (I)  | 133                       | 127                             | 6        | 5%         | 2.6                      | A                       | 934                              |                                     |                         | 24.7                                    | C                           | 2                   | 157             |                 |
|  |            | EBL2 (O)  | 308                       | 308                             | 0        | 0%         | 1.8                      | A                       |                                  |                                     |                         |   |                             | 1                   | 144             |                 |
|  |            | EBT       | 447                       | 439                             | 8        | 2%         | 73.3                     | E                       |                                  |                                     |                         |   |                             | 200                 | 148             | 538             |
|  |            | EBC1 (I)  | 54                        | 55                              | -1       | -2%        | 70.4                     | E                       |                                  |                                     |                         |   |                             | 148                 | 538             |                 |
|  |            | EBC2 (O)  | 5                         | 5                               | 0        | 4%         | 69.0                     | E                       |                                  |                                     |                         |   |                             | 148                 | 538             |                 |
|  |            | WBL1 (I)  | 30                        | 31                              | -1       | -3%        | 14.0                     | B                       | 181                              |                                     |                         |   |                             | 3                   | 116             |                 |
|  |            | WBL2 (O)  | 35                        | 34                              | 1        | 3%         | 10.9                     | B                       |                                  |                                     |                         |   |                             | 2                   | 74              |                 |
|  |            | WBT       | 75                        | 75                              | 1        | 1%         | 42.1                     | D                       | 2216                             |                                     |                         |   |                             | 200                 | 26              | 171             |
|  |            | WBR1 (I)  | 18                        | 17                              | 1        | 7%         | 45.9                     | D                       |                                  |                                     |                         |   |                             | 26                  | 171             |                 |
|  |            | WBR2 (O)  | 24                        | 25                              | -1       | -4%        | 44.5                     | D                       |                                  |                                     |                         |   |                             | 26                  | 171             |                 |
|  |            | NBLU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 2028                             |                                     |                         |   |                             | 11                  | 115             |                 |
|  |            | NBLU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 11                  | 115             |                 |
|  |            | NBIL      | 53                        | 56                              | -3       | -6%        | 43.4                     | D                       |                                  |                                     |                         |   |                             | 190                 | 11              | 115             |
|  |            | NBIT      | 2426                      | 2356                            | 70       | 3%         | 13.2                     | B                       | 2475                             |                                     |                         |   |                             | 1525                | 67              | 393             |
|  |            | NBOT      | 2435                      | 2433                            | 2        | 0%         | 18.4                     | B                       |                                  |                                     |                         |   |                             | 1525                | 163             | 655             |
|  |            | NBOR      | 14                        | 15                              | -1       | -10%       | 34.4                     | C                       |                                  |                                     |                         |   |                             | 1480                | 163             | 655             |
|  |            | SBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       | 2190                             |                                     |                         |   |                             | N/A                 | N/A             |                 |
|  |            | SBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |
|  |            | SBL1      | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |
|  |            | SBIT      | 2213                      | 2190                            | 23       | 1%         | 11.9                     | B                       |                                  |                                     |                         |   |                             | 400                 | 53              | 407             |
|  |            | SBOT      | 1959                      | 1904                            | 55       | 3%         | 47.8                     | D                       |                                  |                                     |                         |   |                             | 415                 | 288             | 566             |
|  |            | SBOR      | 359                       | 346                             | 14       | 4%         | 51.4                     | D                       |                                  |                                     |                         |   |                             | 415                 | 288             | 566             |
| Roosevelt Blvd & Summerdale Ave - Adams Ave        | Signalized | EBL1 (I)  | 3                         | 3                               | 0        | 3%         | 20.3                     | C                       | 646                              |                                     |                         | 56.7                                    | E                           | 0                   | 14              |                 |
|  |            | EBL2 (O)  | 7                         | 7                               | 0        | 0%         | 20.1                     | C                       |                                  |                                     |                         |   |                             | 0                   | 14              |                 |
|  |            | EBT       | 222                       | 215                             | 7        | 3%         | 170.4                    | F                       |                                  |                                     |                         |   |                             | 1700                | 669             | 1706            |
|  |            | EBC1 (I)  | 239                       | 220                             | 19       | 8%         | 177.4                    | F                       |                                  |                                     |                         |   |                             | 300                 | 669             | 1706            |
|  |            | EBC2 (O)  | 227                       | 201                             | 26       | 11%        | 301.6                    | F                       |                                  |                                     |                         |   |                             | 300                 | 669             | 1706            |
|  |            | WBL1 (I)  | 71                        | 70                              | 1        | 2%         | 23.1                     | C                       | 831                              |                                     |                         |   |                             | 730                 | 155             | 536             |
|  |            | WBL2 (O)  | 434                       | 428                             | 6        | 1%         | 37.9                     | D                       |                                  |                                     |                         |   |                             | 730                 | 155             | 536             |
|  |            | WBT       | 308                       | 308                             | 0        | 0%         | 59.9                     | E                       |                                  |                                     |                         |   |                             | 120                 | 95              | 519             |
|  |            | WBR1 (I)  | 7                         | 8                               | -1       | -17%       | 70.3                     | E                       |                                  |                                     |                         |   |                             | 730                 | 0               | 16              |
|  |            | WBR2 (O)  | 8                         | 10                              | -2       | -20%       | 57.5                     | E                       |                                  |                                     |                         |   |                             | 730                 | 185             | 572             |
|  |            | NBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       | 2485                             |                                     |                         |   |                             | N/A                 | N/A             |                 |
|  |            | NBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |
|  |            | NBIL      | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |
|  |            | NBIT      | 2577                      | 2485                            | 92       | 4%         | 22.5                     | C                       |                                  |                                     |                         |   |                             | 450                 | 70              | 298             |
|  |            | NBOT      | 2100                      | 2098                            | 2        | 0%         | 19.9                     | B                       | 2787                             |                                     |                         |   |                             | 450                 | 1               | 40              |
|  |            | NBOR      | 667                       | 663                             | 4        | 1%         | 25.7                     | C                       |                                  |                                     |                         |   |                             | 450                 | 17              | 541             |
|  |            | SBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       | 1898                             |                                     |                         |   |                             | N/A                 | N/A             |                 |
|  |            | SBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |
|  |            | SBL1      | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |
|  |            | SBIT      | 1903                      | 1898                            | 5        | 0%         | 33.8                     | C                       |                                  |                                     |                         |   |                             | 950                 | 130             | 630             |
|  |            | SBOT      | 1657                      | 1628                            | 30       | 2%         | 108.7                    | F                       | 2058                             |                                     |                         |   |                             | 950                 | 628             | 1057            |
|  |            | SBOR      | 471                       | 417                             | 54       | 11%        | 178.6                    | F                       |                                  |                                     |                         |   |                             | 950                 | 628             | 1057            |
| Roosevelt Blvd & Allengrove St Michigan U-turn     | Signalized | WBR       | 8                         | 8                               | 0        | 0%         | 0.6                      | A                       | 2467                             | 0.6                                 | A                       | 22.3                                    | C                           | 0                   | 38              |                 |
|  |            | NBIU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 300                 | 332             | 782             |
|  |            | NBIU2 (O) | 370                       | 321                             | 49       | 13%        | 227.7                    | F                       |                                  |                                     |                         |   |                             | 300                 | 332             | 782             |
|  |            | NBIT      | 2217                      | 2146                            | 71       | 3%         | 10.0                     | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |

### PM Peak - 2025 Build-Reduced BAT

| Intersection                   | Control      | Movement          | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |
|--------------------------------|--------------|-------------------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|
| Roosevelt Blvd & Pratt Street  | Signalized   | EBL1 (I)          | 41                        | 40                              | 2        | 4%         | 5.5                      | A                       | 260                              | 33.8                                | C                       | 23.5                                    | C                           | 26                  | 167             |                 |  |
|                                |              | EBL2 (O)          | 36                        | 35                              | 1        | 4%         | 4.5                      | A                       |                                  |                                     |                         |   |                             | 26                  | 167             |                 |  |
|                                |              | EBT               | 154                       | 148                             | 6        | 4%         | 45.6                     | D                       |                                  |                                     |                         |   |                             | 46                  | 234             |                 |  |
|                                |              | EBR1 (I)          | 13                        | 13                              | 0        | 1%         | 47.4                     | D                       |                                  |                                     |                         |   |                             | 46                  | 234             |                 |  |
|                                |              | EBR2 (O)          | 22                        | 22                              | 0        | -1%        | 42.8                     | D                       |                                  |                                     |                         |   |                             | 46                  | 234             |                 |  |
|                                |              | WBL1 (I)          | 95                        | 93                              | 2        | 2%         | 7.4                      | A                       | 639                              | 29.7                                | C                       |   |                             | 27                  | 153             |                 |  |
|                                |              | WBL2 (O)          | 151                       | 159                             | -8       | -5%        | 9.7                      | A                       |                                  |                                     |                         |   |                             | 27                  | 153             |                 |  |
|                                |              | WBT               | 327                       | 327                             | 0        | 0%         | 44.2                     | D                       |                                  |                                     |                         |   |                             | 91                  | 471             |                 |  |
|                                |              | WBR1 (I)          | 23                        | 23                              | 1        | 2%         | 39.8                     | D                       |                                  |                                     |                         |   |                             | 91                  | 471             |                 |  |
|                                |              | WBR2 (O)          | 17                        | 17                              | 0        | 2%         | 45.1                     | D                       |                                  |                                     |                         |   |                             | 91                  | 471             |                 |  |
|                                |              | NBIL              | 79                        | 78                              | 1        | 2%         | 62.3                     | E                       | 2383                             | 11.2                                | B                       |   |                             | 140                 | 32              |                 |  |
|                                |              | NBT               | 2379                      | 2306                            | 73       | 3%         | 9.4                      | A                       |                                  |                                     |                         |   |                             | 1140                | 32              |                 |  |
|                                |              | NBOT              | 1842                      | 1844                            | -2       | 0%         | 13.6                     | B                       |                                  |                                     |                         |   |                             | 1140                | 53              |                 |  |
|                                |              | NBOR              | 217                       | 219                             | -2       | -1%        | 14.7                     | B                       |                                  |                                     |                         |   |                             | 1140                | 53              |                 |  |
|                                |              | SBIL              | 58                        | 56                              | 2        | 3%         | 54.7                     | D                       |                                  |                                     |                         |   |                             | 500                 | 117             |                 |  |
|                                |              | SBIT              | 1974                      | 1965                            | 9        | 0%         | 28.4                     | C                       | 2021                             | 29.1                                | C                       |   |                             | 500                 | 117             |                 |  |
|                                |              | SBOT              | 1331                      | 1317                            | 14       | 1%         | 46.9                     | D                       |                                  |                                     |                         |   |                             | 500                 | 226             |                 |  |
|                                |              | SBOR              | 26                        | 26                              | 0        | -1%        | 49.1                     | D                       |                                  |                                     |                         |   |                             | 500                 | 226             |                 |  |
|                                |              | EBL               | 260                       | 261                             | 0        | 0%         | 47.7                     | D                       |                                  |                                     |                         |   |                             | 182                 | 879             |                 |  |
|                                |              | EBT               | 450                       | 451                             | 0        | 0%         | 48.0                     | D                       |                                  |                                     |                         |   |                             | 182                 | 879             |                 |  |
| Adams Ave & Ramona Ave         | Signalized   | EBR               | 5                         | 6                               | -1       | -12%       | 48.4                     | D                       | 717                              | 47.9                                | D                       | 25.7                                    | C                           | 170                 | 863             |                 |  |
|                                |              | WBL               | 1                         | 1                               | 0        | 5%         | 26.7                     | C                       |                                  |                                     |                         |   |                             | 1                   | 47              |                 |  |
|                                |              | WBT               | 12                        | 11                              | 1        | 6%         | 31.5                     | C                       |                                  |                                     |                         |   |                             | 1                   | 47              |                 |  |
|                                |              | WBR               | 14                        | 14                              | 0        | 0%         | 19.2                     | B                       |                                  |                                     |                         |   |                             | 3                   | 64              |                 |  |
|                                |              | NBL               | 21                        | 24                              | -3       | -13%       | 26.1                     | C                       |                                  |                                     |                         |   |                             | 23                  | 158             |                 |  |
|                                |              | NBT               | 554                       | 549                             | 5        | 1%         | 15.7                     | B                       | 606                              | 16.1                                | B                       |   |                             | 23                  | 158             |                 |  |
|                                |              | NBR               | 28                        | 26                              | 2        | 8%         | 16.2                     | B                       |                                  |                                     |                         |   |                             | 50                  | 215             |                 |  |
|                                |              | SEL               | 8                         | 10                              | -1       | -17%       | 17.7                     | B                       |                                  |                                     |                         |   |                             | 40                  | 349             |                 |  |
|                                |              | SBT               | 527                       | 523                             | 4        | 1%         | 17.5                     | B                       |                                  |                                     |                         |   |                             | 40                  | 349             |                 |  |
|                                |              | SBR               | 343                       | 335                             | 8        | 2%         | 8.6                      | A                       |                                  |                                     |                         |   |                             | 40                  | 349             |                 |  |
| Summerdale Ave and Godfrey Ave | Unsignalized | EBT               | 6                         | 7                               | 0        | -5%        | 69.0                     | F                       | 203                              | 55.4                                | F                       | 68.6                                    | F                           | 78                  | 466             |                 |  |
|                                |              | EBR               | 204                       | 196                             | 8        | 4%         | 54.9                     | F                       |                                  |                                     |                         |   |                             | 89                  | 484             |                 |  |
|                                |              | WBL               | 7                         | 9                               | -2       | -21%       | 54.7                     | F                       |                                  |                                     |                         |   |                             | 2                   | 52              |                 |  |
|                                |              | WBT               | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 2                   | 60              |                 |  |
|                                |              | WBR to Pratt      | 2                         | 2                               | 0        | -5%        | 21.5                     | C                       |                                  |                                     |                         |   |                             | 1                   | 41              |                 |  |
|                                |              | WBR to Summerdale | 2                         | 2                               | 0        | -14%       | 23.7                     | C                       | 673                              | 78.4                                | F                       |   |                             | 1                   | 41              |                 |  |
|                                |              | NBL               | 196                       | 182                             | 15       | 7%         | 73.5                     | F                       |                                  |                                     |                         |   |                             | 341                 | 1292            |                 |  |
|                                |              | NBT               | 532                       | 471                             | 62       | 12%        | 80.7                     | F                       |                                  |                                     |                         |   |                             | 378                 | 1354            |                 |  |
|                                |              | NBR               | 23                        | 20                              | 3        | 12%        | 70.0                     | F                       |                                  |                                     |                         |   |                             | 342                 | 1298            |                 |  |
|                                |              | SEL               | 9                         | 8                               | 2        | 17%        | 61.1                     | F                       |                                  |                                     |                         |   |                             | 175                 | 596             |                 |  |
|                                |              | SBT               | 478                       | 443                             | 35       | 7%         | 60.6                     | F                       | 451                              | 60.6                                | F                       |   |                             | 175                 | 596             |                 |  |
| Summerdale Ave and Pratt St    | Signalized   | EBL               | 6                         | 6                               | 0        | 3%         | 45.9                     | D                       | 40                               | 35.5                                | D                       | 64.6                                    | E                           | 4                   | 120             |                 |  |
|                                |              | EBT               | 36                        | 34                              | 2        | 6%         | 33.7                     | C                       |                                  |                                     |                         |   |                             | 4                   | 120             |                 |  |
|                                |              | WBL to Summerdale | 5                         | 6                               | 0        | -9%        | 39.7                     | D                       |                                  |                                     |                         |   |                             | 5                   | 122             |                 |  |
|                                |              | WBL to Godfrey    | 1                         | 1                               | 0        | 5%         | 26.5                     | C                       |                                  |                                     |                         |   |                             | 5                   | 122             |                 |  |
|                                |              | WBT               | 45                        | 41                              | 4        | 9%         | 16.3                     | B                       |                                  |                                     |                         |   |                             | 5                   | 122             |                 |  |
|                                |              | WBR               | 42                        | 41                              | 1        | 3%         | 10.9                     | B                       | 93                               | 15.4                                | B                       |   |                             | 11                  | 157             |                 |  |
|                                |              | NBT               | 505                       | 471                             | 34       | 7%         | 80.7                     | F                       |                                  |                                     |                         |   |                             | 378                 | 1354            |                 |  |
|                                |              | NBR               | 27                        | 27                              | 1        | 3%         | 76.7                     | E                       |                                  |                                     |                         |   |                             | 394                 | 1386            |                 |  |
|                                |              | SEL               | 35                        | 34                              | 1        | 2%         | 55.6                     | E                       |                                  |                                     |                         |   |                             | 175                 | 596             |                 |  |
|                                |              | SBT               | 481                       | 443                             | 38       | 8%         | 60.6                     | E                       |                                  |                                     |                         |   |                             | 175                 | 596             |                 |  |
|                                |              | SBR               | 17                        | 17                              | 0        | 0%         | 47.1                     | D                       | 497                              | 59.8                                | E                       |   |                             | 166                 | 582             |                 |  |
| Summerdale Ave and Bridge St   | Signalized   | EBL               | 7                         | 7                               | 0        | -1%        | 20.5                     | C                       | 94                               | 18.1                                | B                       | 31.8                                    | C                           | 7                   | 100             |                 |  |
|                                |              | EBT               | 78                        | 78                              | 0        | 0%         | 16.8                     | B                       |                                  |                                     |                         |   |                             | 7                   | 100             |                 |  |
|                                |              | EBR               | 9                         | 8                               | 1        | 12%        | 27.3                     | C                       |                                  |                                     |                         |   |                             | 14                  | 153             |                 |  |
|                                |              | WBL               | 26                        | 25                              | 2        | 7%         | 31.5                     | C                       | 118                              | 23.3                                | C                       |   |                             | 14                  | 153             |                 |  |
|                                |              | WBT               | 51                        | 50                              | 1        | 2%         | 20.1                     | C                       |                                  |                                     |                         |   |                             | 14                  | 153             |                 |  |
|                                |              | WBR               | 42                        | 43                              | -1       | -2%        | 22.3                     | C                       |                                  |                                     |                         |   |                             | 43                  | 374             |                 |  |
|                                |              | NBL               | 11                        | 10                              | 0        | 4%         | 27.0                     | C                       | 513                              | 16.9                                | B                       |   |                             | 43                  | 374             |                 |  |
|                                |              | NBT               | 509                       | 476                             | 33       | 7%         | 16.8                     | B                       |                                  |                                     |                         |   |                             | 157                 | 560             |                 |  |
|                                |              | NBR               | 24                        | 23                              | 1        | 4%         | 14.6                     | B                       |                                  |                                     |                         |   |                             | 157                 | 560             |                 |  |
|                                |              | SEL               | 27                        | 27                              | 0        | 1%         | 56.5                     | E                       |                                  |                                     |                         |   |                             | 106                 | 441             |                 |  |
|                                |              | SBT               | 490                       | 467                             | 23       | 5%         | 51.2                     | D                       | 504                              | 51.6                                | D                       |   |                             | 106                 | 441             |                 |  |
|                                |              | SBR               | 8                         | 8                               | 0        | 5%         | 57.9                     | E                       |                                  |                                     |                         |   |                             | 122                 | 474             |                 |  |
| Summerdale Ave and Sanger St   | Signalized   | EBL               | 4                         | 5                               | 0        | -10%       | 16.4                     | B                       | 31                               | 18.6                                | B                       | 26.1                                    | C                           | 2                   | 55              |                 |  |
|                                |              | EBT               | 21                        | 22                              | -1       | -3%        | 18.2                     | B                       |                                  |                                     |                         |   |                             | 2                   | 55              |                 |  |
|                                |              | EBR               | 6                         | 5                               | 1        | 21%        | 22.3                     | C                       |                                  |                                     |                         |   |                             | 5                   | 86              |                 |  |
|                                |              | WBL               | 17                        | 17                              | 0        | 1%         | 29.7                     | C                       | 44                               | 19.1                                | B                       |   |                             | 3                   | 62              |                 |  |
|                                |              | WBT               | 14                        | 14                              | 0        | -1%        | 17.3                     | B                       |                                  |                                     |                         |   |                             | 6                   | 91              |                 |  |
|                                |              | WBR               | 14                        | 14                              | 0        | 0%         | 7.9                      | A                       |                                  |                                     |                         |   |                             | 41                  | 367             |                 |  |
|                                |              | NBL               | 9                         | 9                               | 0        | 2%         | 22.1                     | C                       | 513                              | 17.0                                | B                       |   |                             | 41                  | 367             |                 |  |
|                                |              | NBT               | 522                       | 487                             | 35       | 7%         | 17.0                     | B                       |                                  |                                     |                         |   |                             | 55                  | 400             |                 |  |
|                                |              | NBR               | 13                        | 13                              | 0        | -2%        | 13.0                     | B                       |                                  |                                     |                         |   |                             | 106                 | 441             |                 |  |
|                                |              | SEL               | 8                         | 8                               | 1        | 11%        | 36.5                     | D                       | 491                              | 36.7                                | D                       |   |                             | 106                 | 441             |                 |  |
|                                |              | SBT               | 491                       | 473                             | 17       | 4%         | 36.7                     | D                       |                                  |                                     |                         |   |                             | 122                 | 474             |                 |  |

**PM Peak - 2025 Build-Reduced BAT**

| Intersection                      | Control    | Movement | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |
|-----------------------------------|------------|----------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|
| Summerdale Ave and Cheltenham Ave | Signalized | EBL      | 6                         | 6                               | 1        | 10%        | 15.9                     | B                       | 27                               | 14.9                                | B                       | 26.0                                    | C                           | 2                   | 52              |                 |  |
|                                   |            | EBT      | 16                        | 16                              | -1       | -4%        | 12.6                     | B                       |                                  |                                     |                         |   |                             |                     | 2               | 52              |  |
|                                   |            | EBR      | 5                         | 5                               | 0        | 5%         | 21.5                     | C                       |                                  |                                     |                         |   |                             |                     | 2               | 52              |  |
|                                   |            | WBL      | 21                        | 22                              | -1       | -3%        | 27.2                     | C                       | 43                               | 23.2                                | C                       |   |                             | 4                   | 54              |                 |  |
|                                   |            | WBT      | 16                        | 15                              | 1        | 4%         | 21.2                     | C                       |                                  |                                     |                         |   |                             | 4                   | 54              |                 |  |
|                                   |            | WBR      | 6                         | 6                               | 1        | 8%         | 13.7                     | B                       |                                  |                                     |                         |   |                             | 4                   | 54              |                 |  |
|                                   |            | NBL      | 8                         | 8                               | 0        | 5%         | 27.0                     | C                       | 500                              | 17.7                                | B                       |   |                             | 41                  | 419             |                 |  |
|                                   |            | NBT      | 512                       | 477                             | 36       | 7%         | 17.6                     | B                       |                                  |                                     |                         |   |                             | 41                  | 419             |                 |  |
|                                   |            | NBR      | 12                        | 11                              | 0        | 1%         | 15.8                     | B                       |                                  |                                     |                         |   |                             | 41                  | 419             |                 |  |
|                                   |            | SBL      | 6                         | 7                               | 0        | -6%        | 32.6                     | C                       | 492                              | 35.3                                | D                       |   |                             | 105                 | 430             |                 |  |
|                                   |            | SBT      | 487                       | 472                             | 16       | 3%         | 35.6                     | D                       |                                  |                                     |                         |   |                             | 105                 | 430             |                 |  |
|                                   |            | SBR      | 12                        | 11                              | 1        | 6%         | 24.4                     | C                       |                                  |                                     |                         |   |                             | 105                 | 430             |                 |  |
| Summerdale Ave and Oxford Ave     | Signalized | EBL      | 23                        | 21                              | 2        | 10%        | 31.6                     | C                       | 636                              | 26.8                                | C                       | 32.9                                    | C                           | 86                  | 487             |                 |  |
|                                   |            | E BT     | 448                       | 432                             | 17       | 4%         | 27.2                     | C                       |                                  |                                     |                         |   |                             |                     | 86              | 487             |  |
|                                   |            | E BR     | 179                       | 181                             | -2       | -1%        | 25.3                     | C                       |                                  |                                     |                         |   |                             |                     | 86              | 487             |  |
|                                   |            | WBL      | 6                         | 5                               | 1        | 16%        | 23.0                     | C                       | 350                              | 12.8                                | B                       |   |                             | 17                  | 205             |                 |  |
|                                   |            | WBT      | 317                       | 314                             | 3        | 1%         | 12.8                     | B                       |                                  |                                     |                         |   |                             | 17                  | 205             |                 |  |
|                                   |            | WBR      | 29                        | 31                              | -1       | -4%        | 10.9                     | B                       |                                  |                                     |                         |   |                             | 102                 | 594             |                 |  |
|                                   |            | NBL      | 141                       | 132                             | 9        | 6%         | 63.1                     | E                       | 475                              | 49.0                                | D                       |   |                             | 102                 | 594             |                 |  |
|                                   |            | NBT      | 355                       | 337                             | 18       | 5%         | 43.5                     | D                       |                                  |                                     |                         |   |                             | 102                 | 594             |                 |  |
|                                   |            | NBR      | 2                         | 2                               | 0        | 14%        | 40.9                     | D                       |                                  |                                     |                         |   |                             | 77                  | 384             |                 |  |
|                                   |            | SBL      | 34                        | 31                              | 3        | 8%         | 48.3                     | D                       | 333                              | 42.7                                | D                       |   |                             | 77                  | 384             |                 |  |
|                                   |            | SBT      | 296                       | 288                             | 8        | 3%         | 41.9                     | D                       |                                  |                                     |                         |   |                             | 77                  | 384             |                 |  |
|                                   |            | SBR      | 15                        | 14                              | 1        | 5%         | 47.7                     | D                       |                                  |                                     |                         |   |                             | 77                  | 384             |                 |  |

### PM Peak - 2025 Build-Access Change

| Intersection                          | Control    | Movement              | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |
|---------------------------------------|------------|-----------------------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|
| Roosevelt Blvd & Front St             | Signalized | WBL1                  | 89                        | 93                              | -4       | -4%        | 1.2                      | A                       | 888                              | 10.0                                | A                       | 17.2                                    | B                           | 35                  | 189             |                 |
|                                       |            | WBL2                  | 42                        | 42                              | 0        | 0%         | 3.0                      | A                       |                                  |                                     |                         |   |                             | 35                  | 189             |                 |
|                                       |            | WBT                   | 741                       | 735                             | 6        | 1%         | 10.7                     | B                       |                                  |                                     |                         |   |                             | 35                  | 189             |                 |
|                                       |            | WBR1                  | 11                        | 11                              | 0        | 2%         | 44.0                     | D                       |                                  |                                     |                         |   |                             | 96                  | 428             |                 |
|                                       |            | WBR2                  | 7                         | 7                               | 0        | -4%        | 40.7                     | D                       |                                  |                                     |                         |   |                             | 96                  | 428             |                 |
|                                       |            | NBL1                  | 304                       | 300                             | 4        | 1%         | 25.7                     | C                       |                                  |                                     |                         |   |                             | 380                 | 13              | 103             |
|                                       |            | NBIT                  | 2325                      | 2312                            | 13       | 1%         | 20.7                     | C                       |                                  |                                     |                         |   |                             | 475                 | 73              | 525             |
|                                       |            | NBOT                  | 1836                      | 1825                            | 12       | 1%         | 22.1                     | C                       |                                  |                                     |                         |   |                             | 475                 | 110             | 573             |
|                                       |            | SBT                   | 2145                      | 2138                            | 7        | 0%         | 12.5                     | B                       |                                  |                                     |                         |   |                             | 315                 | 49              | 249             |
|                                       |            | SBOT                  | 1086                      | 1090                            | -4       | 0%         | 14.4                     | B                       |                                  |                                     |                         |   |                             | 350                 | 44              | 221             |
|                                       |            | SBOR                  | 64                        | 64                              | 0        | 0%         | 16.2                     | B                       |                                  |                                     |                         |   |                             | 350                 | 44              | 221             |
| Roosevelt Blvd & Rising Sun Ave       | Signalized | EGL1 (I)              | 15                        | 15                              | 0        | 0%         | 8.4                      | A                       | 424                              | 42.2                                | D                       | 23.1                                    | C                           | 29                  | 91              |                 |
|                                       |            | EGL2 (O)              | 33                        | 32                              | 1        | 4%         | 25.7                     | C                       |                                  |                                     |                         |   |                             | 29                  | 91              |                 |
|                                       |            | EBT                   | 180                       | 180                             | 0        | 0%         | 45.2                     | D                       |                                  |                                     |                         |   |                             | 89                  | 460             |                 |
|                                       |            | EGR1 (I)              | 132                       | 130                             | 2        | 1%         | 45.3                     | D                       |                                  |                                     |                         |   |                             | 89                  | 460             |                 |
|                                       |            | EGR2 (O)              | 63                        | 62                              | 1        | 1%         | 43.4                     | D                       |                                  |                                     |                         |   |                             | 89                  | 460             |                 |
|                                       |            | WBL1 (I)              | 20                        | 20                              | 0        | 1%         | 7.0                      | A                       |                                  |                                     |                         |   |                             | 60                  | 2               | 89              |
|                                       |            | WBL2 (O)              | 11                        | 11                              | 0        | -2%        | 11.9                     | B                       |                                  |                                     |                         |   |                             | 60                  | 2               | 89              |
|                                       |            | WBT                   | 370                       | 370                             | 1        | 0%         | 40.4                     | D                       |                                  |                                     |                         |   |                             | 60                  | 147             | 362             |
|                                       |            | WBR1 (I)              | 86                        | 86                              | 0        | 0%         | 41.2                     | D                       |                                  |                                     |                         |   |                             | 60                  | 147             | 362             |
|                                       |            | WBR2 (O)              | 75                        | 75                              | 1        | 1%         | 39.7                     | D                       |                                  |                                     |                         |   |                             | 60                  | 147             | 362             |
|                                       |            | NBL                   | N/A                       | N/A                             | N/A      | N/A        | -                        | N/A                     |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |
|                                       |            | NBIT                  | 2336                      | 2339                            | -3       | 0%         | 3.6                      | A                       |                                  |                                     |                         |   |                             | 245                 | 10              | 132             |
|                                       |            | NBOT                  | 1774                      | 1761                            | 13       | 1%         | 2.6                      | A                       |                                  |                                     |                         |   |                             | 230                 | 0               | 75              |
|                                       |            | SBIL                  | 178                       | 177                             | 1        | 1%         | 56.0                     | E                       |                                  |                                     |                         |   |                             | 250                 | 200             | 596             |
|                                       |            | SBIT                  | 1993                      | 1987                            | 6        | 0%         | 44.0                     | D                       |                                  |                                     |                         |   |                             | 600                 | 200             | 596             |
|                                       |            | SBOT                  | 1076                      | 1081                            | -5       | 0%         | 40.4                     | D                       |                                  |                                     |                         |   |                             | 600                 | 136             | 484             |
|                                       |            | SBOR                  | 188                       | 194                             | -6       | -3%        | 18.1                     | B                       |                                  |                                     |                         |   |                             | 600                 | 136             | 484             |
| Roosevelt Blvd & B St Michigan U-Turn | Signalized | WBR                   | 10                        | 10                              | 0        | 0%         | 0.7                      | A                       | 2442                             | 4.5                                 | A                       | 5.0                                     | A                           | 0                   | 26              |                 |
|                                       |            | NBU1 (I)              | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 275                 | 51              | 199             |
|                                       |            | NBU2 (O)              | 132                       | 136                             | -4       | -3%        | 59.8                     | E                       |                                  |                                     |                         |   |                             | 275                 | 51              | 199             |
|                                       |            | NBIT                  | 2305                      | 2305                            | 0        | 0%         | 1.2                      | A                       |                                  |                                     |                         |   |                             | 620                 | 3               | 75              |
|                                       |            | NBOT                  | 1891                      | 1880                            | 11       | 1%         | 3.4                      | A                       |                                  |                                     |                         |   |                             | 620                 | 7               | 109             |
|                                       |            | NBOR                  | 2                         | 2                               | 0        | 5%         | 9.9                      | A                       |                                  |                                     |                         |   |                             | 620                 | 7               | 109             |
|                                       |            | SBIT                  | 2171                      | 2165                            | 6        | 0%         | 7.0                      | A                       |                                  |                                     |                         |   |                             | 450                 | 8               | 254             |
|                                       |            | SBOT                  | 1132                      | 1139                            | -7       | -1%        | 5.1                      | A                       |                                  |                                     |                         |   |                             | 450                 | 4               | 150             |
| Roosevelt Blvd & C Street             | Signalized | EGL1 (I)              | 82                        | 80                              | 2        | 2%         | 10.7                     | B                       | 641                              | 48.4                                | D                       | 24.9                                    | C                           | 33                  | 213             |                 |
|                                       |            | EGL2 (O)              | 131                       | 128                             | 3        | 2%         | 14.9                     | B                       |                                  |                                     |                         |   |                             | 33                  | 213             |                 |
|                                       |            | EBT                   | 377                       | 375                             | 3        | 1%         | 65.5                     | E                       |                                  |                                     |                         |   |                             | 126                 | 562             |                 |
|                                       |            | EGR1 (I)              | 29                        | 29                              | 0        | 0%         | 65.1                     | E                       |                                  |                                     |                         |   |                             | 126                 | 562             |                 |
|                                       |            | EGR2 (O)              | 15                        | 16                              | -1       | -3%        | 76.9                     | E                       |                                  |                                     |                         |   |                             | 126                 | 562             |                 |
|                                       |            | WBL1 (I)              | 45                        | 45                              | 0        | 0%         | 6.8                      | A                       |                                  |                                     |                         |   |                             | 11                  | 116             |                 |
|                                       |            | WBL2 (O)              | 21                        | 19                              | 2        | 9%         | 6.3                      | A                       |                                  |                                     |                         |   |                             | 11                  | 116             |                 |
|                                       |            | WBT                   | 271                       | 271                             | 0        | 0%         | 69.6                     | E                       |                                  |                                     |                         |   |                             | 140                 | 558             |                 |
|                                       |            | WBR1 (I)              | 56                        | 53                              | 3        | 5%         | 69.8                     | E                       |                                  |                                     |                         |   |                             | 140                 | 558             |                 |
|                                       |            | WBR2 (O)              | 26                        | 27                              | -1       | -2%        | 65.8                     | E                       |                                  |                                     |                         |   |                             | 144                 | 563             |                 |
|                                       |            | NBL                   | 47                        | 47                              | 0        | 0%         | 8.8                      | A                       |                                  |                                     |                         |   |                             | 640                 | 27              | 181             |
|                                       |            | NBIT                  | 2258                      | 2258                            | 0        | 0%         | 7.5                      | A                       |                                  |                                     |                         |   |                             | 640                 | 27              | 181             |
|                                       |            | NBOT                  | 1856                      | 1849                            | 7        | 0%         | 10.2                     | B                       |                                  |                                     |                         |   |                             | 640                 | 38              | 287             |
|                                       |            | NBOR                  | 47                        | 45                              | 2        | 3%         | 12.5                     | B                       |                                  |                                     |                         |   |                             | 640                 | 38              | 287             |
|                                       |            | SBIL                  | 161                       | 160                             | 2        | 1%         | 36.9                     | D                       |                                  |                                     |                         |   |                             | 255                 | 17              | 135             |
|                                       |            | SBIT                  | 1957                      | 1954                            | 3        | 0%         | 37.4                     | D                       |                                  |                                     |                         |   |                             | 775                 | 163             | 684             |
|                                       |            | SBOT                  | 1236                      | 1241                            | -5       | 0%         | 33.5                     | C                       |                                  |                                     |                         |   |                             | 785                 | 135             | 619             |
|                                       |            | SBOR                  | 193                       | 198                             | -5       | -3%        | 34.2                     | C                       |                                  |                                     |                         |   |                             | 785                 | 135             | 619             |
| Roosevelt Blvd & Rorer St - D St      | Signalized | EBR (from D St)       | 15                        | 15                              | 0        | 1%         | 4.3                      | A                       | 15                               | 4.3                                 | A                       | 5.0                                     | A                           | 0                   | 35              |                 |
|                                       |            | EBR (from Bingham St) | 156                       | 157                             | -1       | 0%         | 11.4                     | B                       |                                  |                                     |                         |   |                             | 7                   | 126             |                 |
|                                       |            | WBR                   | 37                        | 37                              | 0        | 1%         | 1.5                      | A                       |                                  |                                     |                         |   |                             | 0                   | 25              |                 |
|                                       |            | NBIT                  | 2396                      | 2393                            | 3        | 0%         | 3.4                      | A                       |                                  |                                     |                         |   |                             | 680                 | 4               | 75              |
|                                       |            | NBOT                  | 2004                      | 1993                            | 11       | 1%         | 5.2                      | A                       |                                  |                                     |                         |   |                             | 680                 | 11              | 210             |
|                                       |            | NBOR                  | 3                         | 3                               | 0        | -13%       | 3.9                      | A                       |                                  |                                     |                         |   |                             | 680                 | 11              | 210             |
|                                       |            | SBIT                  | 2118                      | 2114                            | 4        | 0%         | 5.2                      | A                       |                                  |                                     |                         |   |                             | 1150                | 4               | 127             |
|                                       |            | SBOT                  | 1236                      | 1247                            | -11      | -1%        | 6.4                      | A                       |                                  |                                     |                         |   |                             | 1160                | 7               | 107             |
|                                       |            | SBOR (to D St)        | 64                        | 60                              | 4        | 6%         | 6.3                      | A                       |                                  |                                     |                         |   |                             | 1160                | 7               | 107             |
|                                       |            | SBOR (to Bingham St)  | 81                        | 88                              | -7       | -8%        | 5.2                      | A                       |                                  |                                     |                         |   |                             | 1160                | 7               | 107             |
| Roosevelt Blvd & F Street             | Signalized | EGL1 (I)              | 55                        | 56                              | -1       | -1%        | 15.9                     | B                       | 642                              | 67.0                                | E                       | 33.6                                    | C                           | 38                  | 185             |                 |
|                                       |            | EGL2 (O)              | 124                       | 128                             | -4       | -3%        | 18.5                     | B                       |                                  |                                     |                         |   |                             | 38                  | 185             |                 |
|                                       |            | EBL3                  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 205                 | 699             |                 |
|                                       |            | EBT                   | 361                       | 361                             | 0        | 0%         | 87.1                     | F                       |                                  |                                     |                         |   |                             | 205                 | 699             |                 |
|                                       |            | EGR1 (I)              | 100                       | 96                              | 5        | 5%         | 85.5                     | F                       |                                  |                                     |                         |   |                             | 205                 | 699             |                 |
|                                       |            | EGR2 (O)              | 3                         | 3                               | 0        | 13%        | 88.0                     | F                       |                                  |                                     |                         |   |                             | 25                  | 165             |                 |
|                                       |            | WBL1 (I)              | 21                        | 21                              | 0        | 0%         | 3.6                      | A                       |                                  |                                     |                         |   |                             | 103                 | 438             |                 |
|                                       |            | WBL2 (O)              | 52                        | 54                              | -2       | -3%        | 8.5                      | A                       |                                  |                                     |                         |   |                             | 103                 | 438             |                 |
|                                       |            | WBT                   | 379                       | 372                             | 8        | 2%         | 45.6                     | D                       |                                  |                                     |                         |   |                             | 1275                | 15              | 153             |
|                                       |            | WBR1 (I)              | 8                         | 7                               | 1        | 11%        | 43.2                     | D                       |                                  |                                     |                         |   |                             | 1275                | 23              | 261             |
|                                       |            | WBR2 (O)              | 11                        | 11                              | 0        | 3%         | 44.3                     | D                       |                                  |                                     |                         |   |                             | 1275                | 23              | 261             |
|                                       |            | NBL1                  | 240                       | 237                             | 3        | 1%         | 60.8                     | E                       |                                  |                                     |                         |   |                             | 1050                | 273             | 733             |
|                                       |            | NBIT                  | 2411                      | 2398                            | 13       | 1%         | 9.4                      | A                       |                                  |                                     |                         |   |                             | 1050                | 273             | 733             |
|                                       |            | NBOT                  | 1749                      | 1745                            | 4        | 0%         | 9.6                      | A                       |                                  |                                     |                         |   |                             | 1000                | 184             | 669             |
|                                       |            | NBOR                  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |

### PM Peak - 2025 Build-Access Change

| Intersection                                       | Control    | Movement  | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |
|--|------------|-----------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|
| Roosevelt Blvd & Whitaker Ave (South) - Garland St | Signalized | EBR       | 16                        | 16                              | 0        | 0%         | 1.0                      | A                       | 16                               | 1.0                                 | A                       | 9.2                                     | A                           | 0                   | 0               |                 |
|  |            | WBR1 (I)  | 478                       | 474                             | 4        | 1%         | 44.4                     | D                       | 613                              | 44.6                                | D                       |   |                             | 92                  | 351             |                 |
|  |            | WBR2 (O)  | 137                       | 140                             | -3       | -2%        | 45.3                     | D                       |                                  |                                     |                         |   |                             | 92                  | 351             |                 |
|  |            | NBIT      | 2474                      | 2460                            | 14       | 1%         | 4.4                      | A                       | 4371                             | 5.0                                 | A                       |   |                             | 1080                | 4               | 71              |
|  |            | NBOT      | 1834                      | 1830                            | 5        | 0%         | 5.5                      | A                       |                                  |                                     |                         |   |                             | 1080                | 14              | 166             |
|  |            | NBOR      | 60                        | 63                              | -3       | -5%        | 11.6                     | B                       |                                  |                                     |                         |   |                             | 1080                | 14              | 166             |
|  |            | SBU1 (I)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 460                              | 45.0                                | D                       |   |                             | 66                  | 238             |                 |
|  |            | SBU2 (O)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 66                  | 238             |                 |
|  |            | SBL1      | 466                       | 460                             | 6        | 1%         | 45.0                     | D                       |                                  |                                     |                         |   |                             | 320                 | 66              | 238             |
|  |            | SBIT      | 1961                      | 1959                            | 1        | 0%         | 3.1                      | A                       | 1959                             | 3.1                                 | A                       |   |                             | 450                 | 21              | 181             |
|  |            | SBOT      | 1272                      | 1288                            | -15      | -1%        | 3.3                      | A                       |                                  |                                     |                         |   |                             | 470                 | 3               | 136             |
|  |            | SBOR      | 1                         | 1                               | 0        | 40%        | 0.6                      | A                       |                                  | 1304                                | 3.3                     | A                                       |                             | 470                 | 3               | 136             |
| Roosevelt Blvd & Whitaker Ave (North) - Adams Ave  | Signalized | EBL1 (I)  | 103                       | 105                             | -2       | -2%        | 0.6                      | A                       | 844                              | 16.3                                | B                       | 14.9                                    | B                           | 0                   | 101             |                 |
|  |            | EBL2 (O)  | 400                       | 400                             | 0        | 0%         | 1.7                      | A                       |                                  |                                     |                         |   |                             | 0                   | 101             |                 |
|  |            | EBr1 (I)  | 311                       | 304                             | 7        | 2%         | 39.2                     | D                       |                                  |                                     |                         |   |                             | 61                  | 225             |                 |
|  |            | EBr2 (O)  | 28                        | 27                              | 1        | 3%         | 37.0                     | D                       |                                  |                                     |                         |   |                             | 68                  | 237             |                 |
|  |            | NBIU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 2931                             | 12.8                                | B                       |   |                             | 63                  | 351             |                 |
|  |            | NBIU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 63                  | 351             |                 |
|  |            | NBIL      | 390                       | 390                             | 1        | 0%         | 18.9                     | B                       |                                  |                                     |                         |   |                             | 245                 | 63              | 351             |
|  |            | NBIT      | 2562                      | 2541                            | 21       | 1%         | 11.8                     | B                       | 1986                             | 10.7                                | B                       |   |                             | 265                 | 73              | 463             |
|  |            | NBOT      | 1965                      | 1968                            | -2       | 0%         | 10.7                     | B                       |                                  |                                     |                         |   |                             | 290                 | 49              | 385             |
|  |            | SBIT      | 2116                      | 2118                            | -3       | 0%         | 20.4                     | C                       |                                  | 2118                                | 20.4                    | C                                       |                             | 780                 | 80              | 503             |
|  |            | SBOT      | 1523                      | 1534                            | -11      | -1%        | 14.0                     | B                       |                                  | 2156                                | 15.9                    | B                                       |                             | 800                 | 62              | 555             |
|  |            | SBOR      | 609                       | 601                             | 8        | 1%         | 20.7                     | C                       |                                  |                                     |                         | 800                                     |                             | 62                  | 555             |                 |
| Roosevelt BLvd & Tower Blvd                        | Signalized | EBR       | 165                       | 165                             | 0        | 0%         | 27.1                     | C                       | 165                              | 27.1                                | C                       | 13.9                                    | B                           | 17                  | 99              |                 |
|  |            | NBIU1 (I) | 1                         | 1                               | 0        | 30%        | 32.6                     | C                       |                                  |                                     |                         |   |                             | 32                  | 171             |                 |
|  |            | NBIU2 (O) | 1                         | 1                               | 0        | 20%        | 41.4                     | D                       |                                  |                                     |                         |   |                             | 32                  | 171             |                 |
|  |            | NBIL      | 268                       | 279                             | -11      | -4%        | 44.5                     | D                       | 2647                             | 11.5                                | B                       |   |                             | 320                 | 35              | 172             |
|  |            | NBIT      | 2395                      | 2367                            | 28       | 1%         | 7.6                      | A                       |                                  |                                     |                         |   |                             | 950                 | 19              | 249             |
|  |            | NBOT      | 2365                      | 2338                            | 28       | 1%         | 15.2                     | B                       | 2363                             | 15.2                                | B                       |   |                             | 950                 | 83              | 715             |
|  |            | SBU1 (I)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 200                 | 20              | 244             |
|  |            | SBU1 (O)  | 115                       | 120                             | -5       | -4%        | 39.0                     | D                       | 2239                             | 13.7                                | B                       |   |                             | 200                 | 20              | 244             |
|  |            | SBIT      | 2115                      | 2119                            | -4       | 0%         | 12.3                     | B                       |                                  |                                     |                         |   |                             | 580                 | 46              | 456             |
|  |            | SBOT      | 1966                      | 1971                            | -5       | 0%         | 14.6                     | B                       |                                  |                                     |                         |   |                             | 580                 | 53              | 415             |
|  |            | SBOR      | 100                       | 102                             | -2       | -2%        | 12.6                     | B                       |                                  | 2094                                | 14.5                    | B                                       |                             | 580                 | 52              | 415             |
| Roosevelt Blvd & Langdon St                        | Signalized | EBL1 (I)  | 133                       | 128                             | 5        | 4%         | 1.2                      | A                       | 942                              | 40.1                                | D                       | 15.0                                    | B                           | 1                   | 152             |                 |
|  |            | EBL2 (O)  | 308                       | 311                             | -3       | -1%        | 1.7                      | A                       |                                  |                                     |                         |   |                             | 1                   | 139             |                 |
|  |            | EBT       | 447                       | 443                             | 4        | 1%         | 73.9                     | E                       |                                  |                                     |                         |   |                             | 200                 | 148             | 542             |
|  |            | EBr1 (I)  | 54                        | 56                              | -2       | -3%        | 71.9                     | E                       | 181                              | 31.9                                | C                       |   |                             | 148                 | 542             |                 |
|  |            | EBr2 (O)  | 5                         | 5                               | 0        | 2%         | 71.7                     | E                       |                                  |                                     |                         |   |                             | 2                   | 105             |                 |
|  |            | WBL1 (I)  | 30                        | 31                              | -1       | -3%        | 14.3                     | B                       | 2398                             | 7.4                                 | A                       |   |                             | 2                   | 91              |                 |
|  |            | WBL2 (O)  | 35                        | 34                              | 1        | 3%         | 10.5                     | B                       |                                  |                                     |                         |   |                             | 200                 | 26              | 171             |
|  |            | WTBT      | 75                        | 75                              | 1        | 1%         | 41.9                     | D                       | 2480                             | 18.1                                | B                       |   |                             | 26                  | 171             |                 |
|  |            | WBR1 (I)  | 18                        | 17                              | 1        | 7%         | 45.7                     | D                       |                                  |                                     |                         |   |                             | 24                  | 171             |                 |
|  |            | WBR2 (O)  | 24                        | 25                              | -1       | -4%        | 44.2                     | D                       |                                  |                                     |                         |   |                             | 1525                | 27              | 281             |
|  |            | NBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       | 2216                             | 3.4                                 | A                       |   |                             | 1525                | 161             | 661             |
|  |            | NBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | 1480                | 161             | 661             |
|  |            | NBIL      | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | 400                 | 8               | 112             |
|  |            | NBIT      | 2426                      | 2398                            | 28       | 1%         | 7.4                      | A                       |                                  |                                     |                         |   |                             | 415                 | 103             | 521             |
|  |            | NBOT      | 2435                      | 2438                            | -3       | 0%         | 18.0                     | B                       |                                  |                                     |                         |   |                             | 415                 | 103             | 521             |
|  |            | NBOR      | 14                        | 16                              | -2       | -11%       | 32.6                     | C                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|  |            | SBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       | 2347                             | 19.0                                | B                       |   |                             |                     |                 |                 |
|  |            | SBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|  |            | SBL1      | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|  |            | SBIT      | 2213                      | 2216                            | -3       | 0%         | 3.4                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|  |            | SBOT      | 1959                      | 1971                            | -12      | -1%        | 18.6                     | B                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|  |            | SBOR      | 359                       | 355                             | 4        | 1%         | 21.2                     | C                       |                                  |                                     |                         |   |                             |                     |                 |                 |
| Roosevelt Blvd & Summerdale Ave - Adams Ave        | Signalized | EBL1 (I)  | 3                         | 3                               | 0        | -10%       | 23.7                     | C                       | 712                              | 46.3                                | D                       | 28.8                                    | C                           | 0                   | 14              |                 |
|  |            | EBL2 (O)  | 7                         | 8                               | -1       | -7%        | 22.3                     | C                       |                                  |                                     |                         |   |                             | 0                   | 14              |                 |
|  |            | EBT       | 222                       | 234                             | -12      | -5%        | 44.3                     | D                       |                                  |                                     |                         |   |                             | 1700                | 72              | 352             |
|  |            | EBr1 (I)  | 239                       | 241                             | -2       | -1%        | 49.1                     | D                       | 832                              | 39.0                                | D                       |   |                             | 300                 | 72              | 352             |
|  |            | EBr2 (O)  | 227                       | 225                             | 2        | 1%         | 46.6                     | D                       |                                  |                                     |                         |   |                             | 730                 | 140             | 522             |
|  |            | WBL1 (I)  | 71                        | 70                              | 2        | 2%         | 22.5                     | C                       |                                  |                                     |                         |   |                             | 730                 | 140             | 522             |
|  |            | WBL2 (O)  | 434                       | 428                             | 6        | 1%         | 28.5                     | C                       |                                  |                                     |                         |   |                             | 120                 | 88              | 500             |
|  |            | WTBT      | 308                       | 310                             | -2       | -1%        | 56.3                     | E                       | 2544                             | 14.0                                | B                       |   |                             | 730                 | 0               | 21              |
|  |            | WBR1 (I)  | 7                         | 8                               | -1       | -17%       | 54.0                     | D                       |                                  |                                     |                         |   |                             | 730                 | 170             | 558             |
|  |            | WBR2 (O)  | 8                         | 10                              | -2       | -20%       | 55.7                     | E                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|  |            | NBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|  |            | NBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|  |            | NBIL      | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|  |            | NBIT      | 2577                      | 2544                            | 33       | 1%         | 14.0                     | B                       | 2793                             | 20.2                                | C                       |   |                             | 450                 | 0               | 28              |
|  |            | NBOT      | 2100                      | 2101                            | -1       | 0%         | 19.2                     | B                       |                                  |                                     |                         |   |                             | 450                 | 1               | 48              |
|  |            | NBOR      | 667                       | 666                             | 1        | 0%         | 23.6                     | C                       |                                  |                                     |                         |   |                             | 450                 | 80              | 582             |
|  |            | SBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       | 1903                             | 29.8                                | C                       |   |                             |                     |                 |                 |
|  |            | SBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|  |            | SBL1      | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             |                     |                 |                 |
|  |            | SBIT      | 1903                      | 1903                            | 0        | 0%         | 29.8                     | C                       |                                  |                                     |                         |   |                             | 950                 | 113             | 596             |
|  |            | SBOT      | 1657                      | 1677                            | -20      | -1%        | 43.2                     | D                       | 2155                             | 46.8                                | D                       |   |                             | 950                 | 208             | 832             |
|  |            | SBOR      | 471                       | 464                             | 7        | 1%         | 60.0                     | E                       |                                  |                                     |                         |   |                             | 950                 | 208             | 832             |
|  |            | WBR       | 8                         | 8                               | 0        | 0%         | 0.7                      | A                       |                                  | 8                                   | 0.7                     | A                                       | 9.3                         | A                   | 0               | 38              |
|  |            | NBIU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     | 300             | 80              |
|  |            | NBIU2 (O) | 370                       | 362                             | 8        | 2%         | 74.2                     | E                       | 2558                             | 14.2                                | B                       | 300                                     |                             | 80                  | 231             |                 |
|  |            | NBIT      | 2217                      | 2197                            | 20       | 1%</       |                          |                         |                                  |                                     |                         |   |                             |                     |                 |                 |

### PM Peak - 2025 Build-Access Change

| Intersection                   | Control      | Movement          | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |
|--------------------------------|--------------|-------------------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|
| Roosevelt Blvd & Pratt Street  | Signalized   | EBL1 (I)          | 41                        | 41                              | 0        | 0%         | 6.0                      | A                       | 269                              | 34.8                                | C                       | 19.4                                    | B                           | 29                  | 168             |                 |  |
|                                |              | EBL2 (O)          | 36                        | 36                              | 0        | 1%         | 4.0                      | A                       |                                  |                                     |                         |   |                             | 29                  | 168             |                 |  |
|                                |              | EBT               | 154                       | 153                             | 2        | 1%         | 47.5                     | D                       |                                  |                                     |                         |   |                             | 49                  | 252             |                 |  |
|                                |              | EBR1 (I)          | 13                        | 14                              | -1       | -4%        | 46.7                     | D                       |                                  |                                     |                         |   |                             | 49                  | 252             |                 |  |
|                                |              | EBR2 (O)          | 22                        | 23                              | -1       | -5%        | 43.3                     | D                       |                                  |                                     |                         |   |                             | 49                  | 252             |                 |  |
|                                |              | WBL1 (I)          | 95                        | 93                              | 2        | 3%         | 7.9                      | A                       | 638                              | 30.0                                | C                       |   |                             | 27                  | 158             |                 |  |
|                                |              | WBL2 (O)          | 151                       | 159                             | -8       | -5%        | 9.7                      | A                       |                                  |                                     |                         |   |                             | 27                  | 158             |                 |  |
|                                |              | WBT               | 327                       | 327                             | 0        | 0%         | 44.6                     | D                       |                                  |                                     |                         |   |                             | 91                  | 477             |                 |  |
|                                |              | WBR1 (I)          | 23                        | 23                              | 1        | 2%         | 39.7                     | D                       |                                  |                                     |                         |   |                             | 91                  | 477             |                 |  |
|                                |              | WBR2 (O)          | 17                        | 17                              | 0        | 2%         | 45.8                     | D                       |                                  |                                     |                         |   |                             | 91                  | 477             |                 |  |
|                                |              | NBIL              | 79                        | 78                              | 1        | 1%         | 59.4                     | E                       | 2438                             | 9.3                                 | A                       |   |                             | 140                 | 25              |                 |  |
|                                |              | NBT               | 2379                      | 2360                            | 18       | 1%         | 7.6                      | A                       |                                  |                                     |                         |   |                             | 1140                | 25              |                 |  |
|                                |              | NBOT              | 1842                      | 1842                            | 0        | 0%         | 13.3                     | B                       |                                  |                                     |                         |   |                             | 1140                | 52              |                 |  |
|                                |              | NBOR              | 217                       | 219                             | -2       | -1%        | 14.0                     | B                       |                                  |                                     |                         |   |                             | 1140                | 52              |                 |  |
|                                |              | SBIL              | 58                        | 56                              | 2        | 3%         | 58.3                     | E                       |                                  |                                     |                         |   |                             | 500                 | 120             |                 |  |
|                                |              | SBIT              | 1974                      | 1968                            | 6        | 0%         | 26.9                     | C                       | 2024                             | 27.8                                | C                       |   |                             | 500                 | 120             |                 |  |
|                                |              | SBOT              | 1331                      | 1342                            | -11      | -1%        | 26.2                     | C                       |                                  |                                     |                         |   |                             | 500                 | 89              |                 |  |
|                                |              | SBOR              | 26                        | 27                              | -1       | -5%        | 25.1                     | C                       |                                  |                                     |                         |   |                             | 500                 | 89              |                 |  |
|                                |              | EBL               | 260                       | 262                             | -1       | 0%         | 47.3                     | D                       |                                  |                                     |                         |   |                             | 180                 | 868             |                 |  |
|                                |              | EBT               | 450                       | 451                             | -1       | 0%         | 47.7                     | D                       |                                  |                                     |                         |   |                             | 180                 | 868             |                 |  |
| Adams Ave & Ramona Ave         | Signalized   | EBR               | 5                         | 6                               | -1       | -12%       | 49.9                     | D                       | 719                              | 47.6                                | D                       | 25.3                                    | C                           | 168                 | 853             |                 |  |
|                                |              | WBL               | 1                         | 1                               | 0        | 5%         | 33.6                     | C                       |                                  |                                     |                         |   |                             | 1                   | 41              |                 |  |
|                                |              | WBT               | 12                        | 11                              | 1        | 7%         | 32.2                     | C                       |                                  |                                     |                         |   |                             | 1                   | 41              |                 |  |
|                                |              | WBR               | 14                        | 14                              | 0        | 0%         | 20.9                     | C                       |                                  |                                     |                         |   |                             | 2                   | 58              |                 |  |
|                                |              | NBL               | 21                        | 24                              | -3       | -12%       | 25.8                     | C                       |                                  |                                     |                         |   |                             | 23                  | 159             |                 |  |
|                                |              | NBT               | 554                       | 549                             | 5        | 1%         | 15.7                     | B                       | 606                              | 16.1                                | B                       |   |                             | 23                  | 159             |                 |  |
|                                |              | NBR               | 28                        | 26                              | 2        | 8%         | 16.0                     | B                       |                                  |                                     |                         |   |                             | 50                  | 216             |                 |  |
|                                |              | SEL               | 8                         | 10                              | -2       | -19%       | 19.4                     | B                       |                                  |                                     |                         |   |                             | 40                  | 351             |                 |  |
|                                |              | SBT               | 527                       | 534                             | -7       | -1%        | 16.8                     | B                       |                                  |                                     |                         |   |                             | 40                  | 351             |                 |  |
|                                |              | SBR               | 343                       | 344                             | -1       | 0%         | 8.3                      | A                       |                                  |                                     |                         |   |                             | 40                  | 351             |                 |  |
| Summerdale Ave and Godfrey Ave | Unsignalized | EBT               | 6                         | 7                               | -1       | -8%        | 28.2                     | D                       | 209                              | 14.0                                | B                       | 47.7                                    | E                           | 12                  | 152             |                 |  |
|                                |              | EBR               | 204                       | 203                             | 1        | 1%         | 13.5                     | B                       |                                  |                                     |                         |   |                             | 18                  | 170             |                 |  |
|                                |              | WBL               | 7                         | 9                               | -2       | -25%       | 24.8                     | C                       |                                  |                                     |                         |   |                             | 1                   | 50              |                 |  |
|                                |              | WBT               | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 1                   | 57              |                 |  |
|                                |              | WBR to Pratt      | 2                         | 2                               | 0        | -14%       | 21.6                     | C                       |                                  |                                     |                         |   |                             | 0                   | 39              |                 |  |
|                                |              | WBR to Summerdale | 2                         | 3                               | 0        | -19%       | 13.2                     | B                       | 721                              | 70.9                                | F                       |   |                             | 0                   | 39              |                 |  |
|                                |              | NBL               | 196                       | 196                             | 1        | 0%         | 66.0                     | F                       |                                  |                                     |                         |   |                             | 307                 | 1160            |                 |  |
|                                |              | NBT               | 532                       | 504                             | 29       | 5%         | 73.2                     | F                       |                                  |                                     |                         |   |                             | 344                 | 1223            |                 |  |
|                                |              | NBR               | 23                        | 22                              | 1        | 4%         | 62.5                     | F                       |                                  |                                     |                         |   |                             | 310                 | 1167            |                 |  |
|                                |              | SEL               | 9                         | 9                               | 1        | 9%         | 45.7                     | E                       |                                  |                                     |                         |   |                             | 77                  | 515             |                 |  |
|                                |              | SBT               | 478                       | 479                             | -1       | 0%         | 28.3                     | D                       | 488                              | 28.6                                | D                       |   |                             | 77                  | 515             |                 |  |
| Summerdale Ave and Pratt St    | Signalized   | EBL               | 6                         | 6                               | 0        | 0%         | 16.7                     | B                       | 41                               | 16.2                                | B                       | 46.8                                    | D                           | 3                   | 80              |                 |  |
|                                |              | EBT               | 36                        | 34                              | 1        | 4%         | 16.1                     | B                       |                                  |                                     |                         |   |                             | 3                   | 80              |                 |  |
|                                |              | WBL to Summerdale | 5                         | 6                               | 0        | -5%        | 20.0                     | C                       |                                  |                                     |                         |   |                             | 5                   | 126             |                 |  |
|                                |              | WBL to Godfrey    | 1                         | 1                               | 0        | 5%         | 10.2                     | B                       |                                  |                                     |                         |   |                             | 5                   | 126             |                 |  |
|                                |              | WBT               | 45                        | 42                              | 3        | 8%         | 15.3                     | B                       |                                  |                                     |                         |   |                             | 5                   | 126             |                 |  |
|                                |              | WBR               | 42                        | 41                              | 1        | 3%         | 10.8                     | B                       | 93                               | 13.5                                | B                       |   |                             | 11                  | 161             |                 |  |
|                                |              | NBT               | 505                       | 504                             | 2        | 0%         | 73.2                     | E                       |                                  |                                     |                         |   |                             | 344                 | 1223            |                 |  |
|                                |              | NBR               | 27                        | 28                              | -1       | -3%        | 73.2                     | E                       |                                  |                                     |                         |   |                             | 362                 | 1255            |                 |  |
|                                |              | SEL               | 35                        | 37                              | -3       | -8%        | 33.2                     | C                       |                                  |                                     |                         |   |                             | 77                  | 515             |                 |  |
|                                |              | SBT               | 481                       | 479                             | 2        | 0%         | 28.3                     | C                       |                                  |                                     |                         |   |                             | 77                  | 515             |                 |  |
|                                |              | SBR               | 17                        | 18                              | -1       | -8%        | 24.0                     | C                       | 537                              | 28.5                                | C                       |   |                             | 69                  | 501             |                 |  |
| Summerdale Ave and Bridge St   | Signalized   | EBL               | 7                         | 7                               | 0        | -1%        | 16.6                     | B                       | 94                               | 15.1                                | B                       | 21.9                                    | C                           | 7                   | 97              |                 |  |
|                                |              | EBT               | 78                        | 78                              | 0        | 0%         | 14.9                     | B                       |                                  |                                     |                         |   |                             | 7                   | 97              |                 |  |
|                                |              | EBR               | 9                         | 8                               | 1        | 11%        | 16.1                     | B                       |                                  |                                     |                         |   |                             | 7                   | 97              |                 |  |
|                                |              | WBL               | 26                        | 25                              | 1        | 5%         | 18.0                     | B                       | 119                              | 16.7                                | B                       |   |                             | 9                   | 109             |                 |  |
|                                |              | WBT               | 51                        | 51                              | 0        | 1%         | 16.2                     | B                       |                                  |                                     |                         |   |                             | 9                   | 109             |                 |  |
|                                |              | WBR               | 42                        | 43                              | -1       | -3%        | 16.5                     | B                       | 549                              | 17.4                                | B                       |   |                             | 43                  | 330             |                 |  |
|                                |              | NBL               | 11                        | 11                              | -1       | -6%        | 26.9                     | C                       |                                  |                                     |                         |   |                             | 43                  | 330             |                 |  |
|                                |              | NBT               | 509                       | 509                             | 0        | 0%         | 17.1                     | B                       |                                  |                                     |                         |   |                             | 43                  | 330             |                 |  |
|                                |              | NBR               | 24                        | 25                              | 0        | -1%        | 17.7                     | B                       |                                  |                                     |                         |   |                             | 43                  | 330             |                 |  |
|                                |              | SEL               | 27                        | 29                              | -2       | -8%        | 34.8                     | C                       |                                  |                                     |                         |   |                             | 79                  | 510             |                 |  |
|                                |              | SBT               | 490                       | 500                             | -10      | -2%        | 28.5                     | C                       | 540                              | 28.8                                | C                       |   |                             | 79                  | 510             |                 |  |
|                                |              | SBR               | 8                         | 8                               | 0        | 2%         | 24.1                     | C                       |                                  |                                     |                         |   |                             | 79                  | 510             |                 |  |
| Summerdale Ave and Sanger St   | Signalized   | EBL               | 4                         | 5                               | 0        | -10%       | 13.3                     | B                       | 31                               | 12.5                                | B                       | 16.3                                    | B                           | 2                   | 51              |                 |  |
|                                |              | EBT               | 21                        | 22                              | -1       | -3%        | 14.0                     | B                       |                                  |                                     |                         |   |                             | 2                   | 51              |                 |  |
|                                |              | EBR               | 6                         | 5                               | 1        | 21%        | 5.5                      | A                       |                                  |                                     |                         |   |                             | 4                   | 83              |                 |  |
|                                |              | WBL               | 17                        | 17                              | 0        | 1%         | 16.7                     | B                       | 44                               | 13.8                                | B                       |   |                             | 3                   | 57              |                 |  |
|                                |              | WBT               | 14                        | 14                              | 0        | -1%        | 16.9                     | B                       |                                  |                                     |                         |   |                             | 6                   | 87              |                 |  |
|                                |              | WBR               | 14                        | 14                              | 0        | 0%         | 6.9                      | A                       | 548                              | 16.5                                | B                       |   |                             | 42                  | 388             |                 |  |
|                                |              | NBL               | 9                         | 10                              | -1       | -6%        | 22.3                     | C                       |                                  |                                     |                         |   |                             | 42                  | 388             |                 |  |
|                                |              | NBT               | 522                       | 521                             | 1        | 0%         | 16.4                     | B                       |                                  |                                     |                         |   |                             | 56                  | 422             |                 |  |
|                                |              | NBR               | 13                        | 13                              | 0        | -3%        | 14.5                     | B                       |                                  |                                     |                         |   |                             | 37                  | 328             |                 |  |
|                                |              | SEL               | 8                         | 8                               | 0        | 4%         | 23.9                     | C                       |                                  |                                     |                         |   |                             | 37                  | 328             |                 |  |
|                                |              | SBT               | 491                       | 500                             | -10      | -2%        | 16.4                     | B                       | 519                              | 16.5                                | B                       |   |                             | 50                  | 361             |                 |  |

### PM Peak - 2025 Build-Access Change

| Intersection                      | Control    | Movement | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |
|-----------------------------------|------------|----------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|
| Summerdale Ave and Cheltenham Ave | Signalized | EBL      | 6                         | 6                               | 1        | 10%        | 15.9                     | B                       | 27                               | 13.4                                | B                       | 17.1                                    | B                           | 2                   | 52              |                 |  |
|                                   |            | EBT      | 16                        | 16                              | -1       | -4%        | 12.3                     | B                       |                                  |                                     |                         |   |                             | 2                   | 52              |                 |  |
|                                   |            | EBR      | 5                         | 5                               | 0        | 5%         | 14.2                     | B                       |                                  |                                     |                         |   |                             | 2                   | 52              |                 |  |
|                                   |            | WBL      | 21                        | 22                              | -1       | -5%        | 15.6                     | B                       | 43                               | 15.6                                | B                       |   |                             | 3                   | 51              |                 |  |
|                                   |            | WBT      | 16                        | 15                              | 1        | 3%         | 16.7                     | B                       |                                  |                                     |                         |   |                             | 3                   | 51              |                 |  |
|                                   |            | WBR      | 6                         | 6                               | 0        | 6%         | 12.5                     | B                       |                                  |                                     |                         |   |                             | 3                   | 51              |                 |  |
|                                   |            | NBL      | 8                         | 8                               | 0        | 0%         | 28.0                     | C                       | 536                              | 20.2                                | C                       |   |                             | 51                  | 514             |                 |  |
|                                   |            | NBT      | 512                       | 512                             | 1        | 0%         | 20.1                     | C                       |                                  |                                     |                         |   |                             | 51                  | 514             |                 |  |
|                                   |            | NBR      | 12                        | 12                              | 0        | -4%        | 18.2                     | B                       |                                  |                                     |                         |   |                             | 51                  | 514             |                 |  |
|                                   |            | SEB      | 6                         | 7                               | -1       | -13%       | 18.6                     | B                       | 517                              | 14.4                                | B                       |   |                             | 30                  | 264             |                 |  |
|                                   |            | SBT      | 487                       | 495                             | -8       | -2%        | 14.4                     | B                       |                                  |                                     |                         |   |                             | 30                  | 264             |                 |  |
|                                   |            | SBR      | 12                        | 11                              | 0        | 3%         | 11.1                     | B                       |                                  |                                     |                         |   |                             | 30                  | 264             |                 |  |
| Summerdale Ave and Oxford Ave     | Signalized | EBL      | 23                        | 21                              | 2        | 8%         | 20.9                     | C                       | 649                              | 17.6                                | B                       | 27.0                                    | C                           | 45                  | 397             |                 |  |
|                                   |            | EAT      | 448                       | 440                             | 8        | 2%         | 17.8                     | B                       |                                  |                                     |                         |   |                             | 45                  | 397             |                 |  |
|                                   |            | EBR      | 179                       | 184                             | -6       | -3%        | 16.6                     | B                       |                                  |                                     |                         |   |                             | 45                  | 397             |                 |  |
|                                   |            | WBL      | 6                         | 5                               | 1        | 14%        | 20.8                     | C                       | 350                              | 12.7                                | B                       |   |                             | 17                  | 205             |                 |  |
|                                   |            | WBT      | 317                       | 314                             | 3        | 1%         | 12.8                     | B                       |                                  |                                     |                         |   |                             | 17                  | 205             |                 |  |
|                                   |            | WBR      | 29                        | 31                              | -1       | -4%        | 10.7                     | B                       |                                  |                                     |                         |   |                             | 17                  | 205             |                 |  |
|                                   |            | NBL      | 141                       | 139                             | 2        | 1%         | 69.0                     | E                       | 502                              | 53.9                                | D                       |   |                             | 123                 | 612             |                 |  |
|                                   |            | NBT      | 355                       | 357                             | -3       | -1%        | 48.1                     | D                       |                                  |                                     |                         |   |                             | 123                 | 612             |                 |  |
|                                   |            | NBR      | 2                         | 2                               | 0        | 5%         | 34.5                     | C                       |                                  |                                     |                         |   |                             | 123                 | 612             |                 |  |
|                                   |            | SEB      | 34                        | 32                              | 2        | 5%         | 28.4                     | C                       | 345                              | 20.3                                | C                       |   |                             | 28                  | 248             |                 |  |
|                                   |            | SBT      | 296                       | 299                             | -3       | -1%        | 19.5                     | B                       |                                  |                                     |                         |   |                             | 28                  | 248             |                 |  |
|                                   |            | SBR      | 15                        | 15                              | 0        | 1%         | 19.3                     | B                       |                                  |                                     |                         |   |                             | 28                  | 248             |                 |  |

### PM Peak - 2025 Build Preferred

| Intersection                          | Control    | Movement              | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|---------------------------------------|------------|-----------------------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Front St             | Signalized | WBL1                  | 89                        | 93                              | -4       | -4%        | 1.2                      | A                       | 888                              | 10.0                                | A                       | 17.2                                    | B                           | 35                  | 189             |                 |  |  |
|                                       |            | WBL2                  | 42                        | 42                              | 0        | 0%         | 3.0                      | A                       |                                  |                                     |                         |   |                             | 35                  | 189             |                 |  |  |
|                                       |            | WBT                   | 741                       | 735                             | 6        | 1%         | 10.7                     | B                       |                                  |                                     |                         |   |                             | 35                  | 189             |                 |  |  |
|                                       |            | WBR1                  | 11                        | 11                              | 0        | 2%         | 44.1                     | D                       |                                  |                                     |                         |   |                             | 96                  | 428             |                 |  |  |
|                                       |            | WBR2                  | 7                         | 7                               | 0        | -4%        | 40.7                     | D                       |                                  |                                     |                         |   |                             | 96                  | 428             |                 |  |  |
|                                       |            | NBL1                  | 304                       | 300                             | 4        | 1%         | 25.7                     | C                       |                                  |                                     |                         |   |                             | 380                 | 13              | 103             |  |  |
|                                       |            | NBIT                  | 2325                      | 2312                            | 13       | 1%         | 20.7                     | C                       |                                  |                                     |                         |   |                             | 475                 | 73              | 521             |  |  |
|                                       |            | NBOT                  | 1836                      | 1825                            | 12       | 1%         | 22.2                     | C                       |                                  |                                     |                         |   |                             | 475                 | 111             | 572             |  |  |
|                                       |            | SBIT                  | 2145                      | 2134                            | 11       | 1%         | 12.7                     | B                       |                                  |                                     |                         |   |                             | 315                 | 50              | 255             |  |  |
|                                       |            | SBOT                  | 1086                      | 1087                            | -1       | 0%         | 13.9                     | B                       |                                  |                                     |                         |   |                             | 350                 | 46              | 206             |  |  |
|                                       |            | SBOR                  | 64                        | 64                              | 0        | 1%         | 19.0                     | B                       |                                  |                                     |                         |   |                             | 350                 | 46              | 206             |  |  |
| Roosevelt Blvd & Rising Sun Ave       | Signalized | EGL1 (I)              | 15                        | 15                              | 0        | 0%         | 10.1                     | B                       | 425                              | 42.0                                | D                       | 23.1                                    | C                           | 30                  | 103             |                 |  |  |
|                                       |            | EGL2 (O)              | 33                        | 32                              | 1        | 4%         | 24.6                     | C                       |                                  |                                     |                         |   |                             | 30                  | 103             |                 |  |  |
|                                       |            | EBT                   | 180                       | 180                             | 0        | 0%         | 44.9                     | D                       |                                  |                                     |                         |   |                             | 88                  | 457             |                 |  |  |
|                                       |            | EGR1 (I)              | 132                       | 130                             | 2        | 1%         | 45.4                     | D                       |                                  |                                     |                         |   |                             | 88                  | 457             |                 |  |  |
|                                       |            | EGR2 (O)              | 63                        | 62                              | 1        | 1%         | 43.1                     | D                       |                                  |                                     |                         |   |                             | 60                  | 2               | 81              |  |  |
|                                       |            | WBL1 (I)              | 20                        | 20                              | 0        | 1%         | 8.8                      | A                       | 568                              | 38.9                                | D                       |   |                             | 60                  | 2               | 81              |  |  |
|                                       |            | WBL2 (O)              | 11                        | 11                              | 0        | -4%        | 14.0                     | B                       |                                  |                                     |                         |   |                             | 60                  | 146             | 361             |  |  |
|                                       |            | WBT                   | 370                       | 369                             | 1        | 0%         | 40.5                     | D                       |                                  |                                     |                         |   |                             | 60                  | 146             | 361             |  |  |
|                                       |            | WBR1 (I)              | 86                        | 86                              | 0        | 0%         | 41.7                     | D                       |                                  |                                     |                         |   |                             | 60                  | 146             | 361             |  |  |
|                                       |            | WBR2 (O)              | 75                        | 75                              | 0        | 1%         | 39.5                     | D                       |                                  |                                     |                         |   |                             | 60                  | 146             | 361             |  |  |
|                                       |            | NBL                   | N/A                       | N/A                             | N/A      | N/A        | -                        | N/A                     |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |  |  |
|                                       |            | NBIT                  | 2336                      | 2339                            | -3       | 0%         | 3.7                      | A                       |                                  |                                     |                         |   |                             | 245                 | 11              | 132             |  |  |
|                                       |            | NBOT                  | 1774                      | 1761                            | 13       | 1%         | 2.9                      | A                       |                                  |                                     |                         |   |                             | 230                 | 2               | 98              |  |  |
|                                       |            | SBIL                  | 178                       | 177                             | 1        | 1%         | 55.4                     | E                       |                                  |                                     |                         |   |                             | 250                 | 199             | 600             |  |  |
|                                       |            | SBIT                  | 1993                      | 1985                            | 8        | 0%         | 43.8                     | D                       |                                  |                                     |                         |   |                             | 600                 | 199             | 600             |  |  |
|                                       |            | SBOT                  | 1076                      | 1078                            | -2       | 0%         | 40.6                     | D                       |                                  |                                     |                         |   |                             | 600                 | 136             | 511             |  |  |
|                                       |            | SBOR                  | 188                       | 193                             | -5       | -2%        | 16.9                     | B                       |                                  |                                     |                         |   |                             | 600                 | 136             | 511             |  |  |
| Roosevelt Blvd & B St Michigan U-Turn | Signalized | WBR                   | 10                        | 10                              | 0        | 0%         | 0.7                      | A                       | 2443                             | 5.4                                 | A                       | 5.8                                     | A                           | 0                   | 26              |                 |  |  |
|                                       |            | NBIU1 (I)             | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 275                 | 51              | 199             |  |  |
|                                       |            | NBIU2 (O)             | 132                       | 136                             | -4       | -3%        | 59.4                     | E                       |                                  |                                     |                         |   |                             | 275                 | 51              | 199             |  |  |
|                                       |            | NBIT                  | 2305                      | 2306                            | -1       | 0%         | 2.2                      | A                       |                                  |                                     |                         |   |                             | 620                 | 9               | 100             |  |  |
|                                       |            | NBOT                  | 1891                      | 1880                            | 11       | 1%         | 5.5                      | A                       |                                  |                                     |                         |   |                             | 620                 | 24              | 181             |  |  |
|                                       |            | NBOR                  | 2                         | 2                               | 0        | 5%         | 9.9                      | A                       |                                  |                                     |                         |   |                             | 620                 | 24              | 181             |  |  |
|                                       |            | SBIT                  | 2171                      | 2162                            | 9        | 0%         | 7.0                      | A                       |                                  |                                     |                         |   |                             | 450                 | 8               | 223             |  |  |
|                                       |            | SBOT                  | 1132                      | 1134                            | -2       | 0%         | 5.2                      | A                       |                                  |                                     |                         |   |                             | 450                 | 5               | 177             |  |  |
| Roosevelt Blvd & C Street             | Signalized | EGL1 (I)              | 82                        | 80                              | 2        | 2%         | 10.4                     | B                       | 642                              | 46.9                                | D                       | 25.8                                    | C                           | 35                  | 209             |                 |  |  |
|                                       |            | EGL2 (O)              | 131                       | 128                             | 3        | 2%         | 15.2                     | B                       |                                  |                                     |                         |   |                             | 35                  | 209             |                 |  |  |
|                                       |            | EBT                   | 377                       | 375                             | 2        | 0%         | 63.7                     | E                       |                                  |                                     |                         |   |                             | 122                 | 554             |                 |  |  |
|                                       |            | EGR1 (I)              | 29                        | 29                              | 0        | 0%         | 58.6                     | E                       |                                  |                                     |                         |   |                             | 122                 | 554             |                 |  |  |
|                                       |            | EGR2 (O)              | 15                        | 15                              | 0        | -2%        | 71.8                     | E                       |                                  |                                     |                         |   |                             | 122                 | 554             |                 |  |  |
|                                       |            | WBL1 (I)              | 45                        | 45                              | 0        | 0%         | 6.9                      | A                       | 415                              | 59.1                                | E                       |   |                             | 11                  | 117             |                 |  |  |
|                                       |            | WBL2 (O)              | 21                        | 19                              | 2        | 9%         | 5.9                      | A                       |                                  |                                     |                         |   |                             | 11                  | 117             |                 |  |  |
|                                       |            | WBT                   | 271                       | 271                             | 0        | 0%         | 68.9                     | E                       |                                  |                                     |                         |   |                             | 139                 | 546             |                 |  |  |
|                                       |            | WBR1 (I)              | 56                        | 53                              | 3        | 5%         | 69.6                     | E                       |                                  |                                     |                         |   |                             | 139                 | 546             |                 |  |  |
|                                       |            | WBR2 (O)              | 26                        | 27                              | -1       | -2%        | 65.5                     | E                       |                                  |                                     |                         |   |                             | 143                 | 551             |                 |  |  |
|                                       |            | NBL                   | 47                        | 47                              | 0        | 0%         | 10.4                     | B                       | 2305                             | 9.0                                 | A                       |   |                             | 640                 | 34              | 204             |  |  |
|                                       |            | NBIT                  | 2258                      | 2259                            | 0        | 0%         | 9.0                      | A                       |                                  |                                     |                         |   |                             | 640                 | 34              | 204             |  |  |
|                                       |            | NBOT                  | 1856                      | 1848                            | 8        | 0%         | 12.1                     | B                       |                                  |                                     |                         |   |                             | 640                 | 49              | 311             |  |  |
|                                       |            | NBOR                  | 47                        | 45                              | 2        | 3%         | 13.1                     | B                       |                                  |                                     |                         |   |                             | 640                 | 49              | 311             |  |  |
|                                       |            | SBIL                  | 161                       | 160                             | 1        | 0%         | 49.5                     | D                       |                                  |                                     |                         |   |                             | 255                 | 34              | 302             |  |  |
|                                       |            | SBIT                  | 1957                      | 1951                            | 6        | 0%         | 37.5                     | D                       |                                  |                                     |                         |   |                             | 775                 | 164             | 662             |  |  |
|                                       |            | SBOT                  | 1236                      | 1236                            | 0        | 0%         | 33.5                     | C                       |                                  |                                     |                         |   |                             | 785                 | 138             | 656             |  |  |
|                                       |            | SBOR                  | 193                       | 199                             | -6       | -3%        | 34.7                     | C                       |                                  |                                     |                         |   |                             | 785                 | 138             | 656             |  |  |
| Roosevelt Blvd & Rorer St - D St      | Signalized | EBR (from D St)       | 15                        | 15                              | 0        | 1%         | 3.9                      | A                       | 1406                             | 6.7                                 | A                       | 5.0                                     | A                           | 0                   | 34              |                 |  |  |
|                                       |            | EBR (from Bingham St) | 156                       | 157                             | -1       | 0%         | 11.7                     | B                       |                                  |                                     |                         |   |                             | 8                   | 119             |                 |  |  |
|                                       |            | WBR                   | 37                        | 37                              | 0        | 1%         | 1.5                      | A                       |                                  |                                     |                         |   |                             | 0                   | 25              |                 |  |  |
|                                       |            | NBIT                  | 2396                      | 2392                            | 4        | 0%         | 3.4                      | A                       |                                  |                                     |                         |   |                             | 680                 | 4               | 73              |  |  |
|                                       |            | NBOT                  | 2004                      | 1992                            | 12       | 1%         | 5.1                      | A                       |                                  |                                     |                         |   |                             | 680                 | 11              | 215             |  |  |
|                                       |            | NBOR                  | 3                         | 4                               | -1       | -17%       | 9.0                      | A                       |                                  |                                     |                         |   |                             | 680                 | 11              | 215             |  |  |
|                                       |            | SBIT                  | 2118                      | 2111                            | 7        | 0%         | 5.2                      | A                       |                                  |                                     |                         |   |                             | 1150                | 4               | 129             |  |  |
|                                       |            | SBOT                  | 1236                      | 1243                            | -7       | -1%        | 6.8                      | A                       |                                  |                                     |                         |   |                             | 1160                | 8               | 118             |  |  |
|                                       |            | SBOR (to D St)        | 64                        | 60                              | 4        | 6%         | 6.6                      | A                       |                                  |                                     |                         |   |                             | 1160                | 8               | 118             |  |  |
|                                       |            | SBOR (to Bingham St)  | 81                        | 87                              | -6       | -8%        | 5.4                      | A                       |                                  |                                     |                         |   |                             | 1160                | 8               | 118             |  |  |
| Roosevelt Blvd & F Street             | Signalized | EGL1 (I)              | 55                        | 55                              | 0        | 0%         | 15.6                     | B                       | 643                              | 62.6                                | E                       | 33.3                                    | C                           | 38                  | 195             |                 |  |  |
|                                       |            | EGL2 (O)              | 124                       | 128                             | -4       | -3%        | 18.6                     | B                       |                                  |                                     |                         |   |                             | 38                  | 195             |                 |  |  |
|                                       |            | EBL3                  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 38                  | 195             |                 |  |  |
|                                       |            | EBT                   | 361                       | 361                             | 0        | 0%         | 80.7                     | F                       |                                  |                                     |                         |   |                             | 183                 | 681             |                 |  |  |
|                                       |            | EGR1 (I)              | 100                       | 96                              | 4        | 4%         | 79.7                     | E                       |                                  |                                     |                         |   |                             | 183                 | 681             |                 |  |  |
|                                       |            | EGR2 (O)              | 3                         | 3                               | 1        | 17%        | 72.3                     | E                       |                                  |                                     |                         |   |                             | 183                 | 681             |                 |  |  |
|                                       |            | WBL1 (I)              | 21                        | 21                              | 0        | 1%         | 3.3                      | A                       |                                  |                                     |                         |   |                             | 25                  | 167             |                 |  |  |
|                                       |            | WBL2 (O)              | 52                        | 54                              | -2       | -3%        | 8.8                      | A                       |                                  |                                     |                         |   |                             | 25                  | 167             |                 |  |  |
|                                       |            | WBT                   | 379                       | 372                             | 8        | 2%         | 45.7                     | D                       | 464                              | 39.4                                | D                       |   |                             | 103                 | 438             |                 |  |  |
|                                       |            | WBR1 (I)              | 8                         | 7                               | 1        | 11%        | 43.0                     | D                       |                                  |                                     |                         |   |                             | 103                 | 438             |                 |  |  |
|                                       |            | WBR2 (O)              | 11                        | 11                              | 0        | 3%         | 44.4                     | D                       |                                  |                                     |                         |   |                             | 103                 | 438             |                 |  |  |
|                                       |            | NBL1                  | 240                       | 238                             | 2        | 1%         | 58.5                     | E                       |                                  |                                     |                         |   |                             | 170                 | 70              | 349             |  |  |
|                                       |            | NBIT                  | 2411                      | 2397                            | 14       | 1%         | 9.8                      | A                       |                                  |                                     |                         |   |                             | 1275                | 17              | 159             |  |  |
|                                       |            | NBOT                  | 1749                      | 1745                            | 4        | 0%         | 9.9                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                 |  |  |

**PM Peak - 2025 Build Preferred**

| Intersection                                       | Control    | Movement  | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |
|--|------------|-----------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|
| Roosevelt Blvd & Whitaker Ave (South) - Garland St | Signalized | EBR       | 16                        | 16                              | 0        | 0%         | 1.0                      | A                       | 16                               | 1.0                                 | A                       | 9.2                                     | A                           | 0                   | 0               | 0               |
|  |            | WBR1 (I)  | 478                       | 474                             | 4        | 1%         | 44.7                     | D                       | 613                              | 44.8                                | D                       |   |                             | 92                  | 349             |                 |
|  |            | WBR2 (O)  | 137                       | 140                             | -3       | -2%        | 45.3                     | D                       |                                  |                                     |                         |   |                             | 92                  | 349             |                 |
|  |            | NBIT      | 2474                      | 2459                            | 15       | 1%         | 4.6                      | A                       | 4369                             | 5.0                                 | A                       |   |                             | 1080                | 4               | 87              |
|  |            | NBOT      | 1834                      | 1830                            | 5        | 0%         | 5.4                      | A                       |                                  |                                     |                         |   |                             | 1080                | 13              | 126             |
|  |            | NBOR      | 60                        | 63                              | -3       | -4%        | 11.0                     | B                       |                                  |                                     |                         |   |                             | 66                  | 237             |                 |
|  |            | SBU1 (I)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 461                              | 45.0                                | D                       |   |                             | 66                  | 237             |                 |
|  |            | SBU2 (O)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 320                 | 66              | 237             |
|  |            | SBIL      | 466                       | 461                             | 6        | 1%         | 45.0                     | D                       |                                  |                                     |                         |   |                             | 450                 | 21              | 178             |
|  |            | SBIT      | 1961                      | 1960                            | 1        | 0%         | 3.1                      | A                       | 1960                             | 3.1                                 | A                       |   |                             | 470                 | 2               | 105             |
|  |            | SBOT      | 1272                      | 1280                            | -7       | -1%        | 3.0                      | A                       |                                  |                                     |                         |   |                             | 470                 | 2               | 105             |
|  |            | SBOR      | 1                         | 1                               | 0        | 30%        | 0.7                      | A                       |                                  | 1295                                | 3.0                     | A                                       |                             | 470                 | 2               | 105             |
| Roosevelt Blvd & Whitaker Ave (North) - Adams Ave  | Signalized | EBL1 (I)  | 103                       | 105                             | -2       | -2%        | 0.8                      | A                       | 846                              | 16.3                                | B                       | 16.3                                    | B                           | 0                   | 93              |                 |
|  |            | EBL2 (O)  | 400                       | 402                             | -2       | 0%         | 1.8                      | A                       |                                  |                                     |                         |   |                             | 0                   | 93              |                 |
|  |            | EBr1 (I)  | 311                       | 304                             | 7        | 2%         | 39.1                     | D                       |                                  |                                     |                         |   |                             | 61                  | 225             |                 |
|  |            | EBr2 (O)  | 28                        | 27                              | 1        | 2%         | 35.4                     | D                       |                                  |                                     |                         |   |                             | 68                  | 237             |                 |
|  |            | NBIU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 2930                             | 13.8                                | B                       |   |                             | 63                  | 343             |                 |
|  |            | NBIU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 63                  | 343             |                 |
|  |            | NBIL      | 390                       | 390                             | 1        | 0%         | 18.7                     | B                       |                                  |                                     |                         |   |                             | 245                 | 63              | 343             |
|  |            | NBIT      | 2562                      | 2541                            | 21       | 1%         | 13.1                     | B                       |                                  |                                     |                         |   |                             | 265                 | 81              | 506             |
|  |            | NBOT      | 1965                      | 1969                            | -4       | 0%         | 10.6                     | B                       |                                  | 1987                                | 10.6                    | B                                       |                             | 290                 | 46              | 344             |
|  |            | SBIT      | 2116                      | 2118                            | -3       | 0%         | 19.8                     | B                       |                                  | 2118                                | 19.8                    | B                                       |                             | 780                 | 78              | 506             |
|  |            | SBOT      | 1523                      | 1526                            | -3       | 0%         | 19.9                     | B                       |                                  | 2150                                | 21.4                    | C                                       |                             | 800                 | 90              | 626             |
|  |            | SBOR      | 609                       | 603                             | 6        | 1%         | 25.0                     | C                       |                                  |                                     |                         | 800                                     |                             | 90                  | 626             |                 |
| Roosevelt BLvd & Tower Blvd                        | Signalized | EBR       | 165                       | 165                             | 0        | 0%         | 28.0                     | C                       | 165                              | 28.0                                | C                       | 13.9                                    | B                           | 17                  | 98              |                 |
|  |            | NBIU1 (I) | 1                         | 1                               | 0        | 30%        | 32.0                     | C                       |                                  |                                     |                         |   |                             | 26                  | 148             |                 |
|  |            | NBIU2 (O) | 1                         | 1                               | 0        | 20%        | 41.4                     | D                       |                                  |                                     |                         |   |                             | 26                  | 148             |                 |
|  |            | NBIL      | 215                       | 222                             | -7       | -3%        | 48.2                     | D                       | 2650                             | 12.5                                | B                       |   |                             | 320                 | 29              | 149             |
|  |            | NBIT      | 2448                      | 2426                            | 21       | 1%         | 9.2                      | A                       |                                  |                                     |                         |   |                             | 950                 | 21              | 267             |
|  |            | NBOT      | 2365                      | 2342                            | 24       | 1%         | 16.4                     | B                       |                                  | 2368                                | 16.4                    | B                                       |                             | 950                 | 93              | 787             |
|  |            | SBU1 (I)  | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  | 2238                                | 13.4                    | B                                       |                             | 200                 | 21              | 244             |
|  |            | SBU1 (O)  | 115                       | 120                             | -5       | -4%        | 39.8                     | D                       |                                  |                                     |                         | 200                                     |                             | 21                  | 244             |                 |
|  |            | SBIT      | 2115                      | 2118                            | -4       | 0%         | 11.9                     | B                       |                                  |                                     |                         | 580                                     |                             | 44                  | 397             |                 |
|  |            | SBOT      | 1966                      | 1963                            | 4        | 0%         | 12.1                     | B                       |                                  | 2085                                | 12.3                    | B                                       |                             | 580                 | 41              | 408             |
|  |            | SBOR      | 100                       | 101                             | -1       | -1%        | 14.9                     | B                       |                                  |                                     |                         | 580                                     |                             | 40                  | 408             |                 |
| Roosevelt Blvd & Langdon St                        | Signalized | EBL1 (I)  | 133                       | 128                             | 5        | 4%         | 1.2                      | A                       | 945                              | 39.0                                | D                       | 19.1                                    | B                           | 1                   | 144             |                 |
|  |            | EBL2 (O)  | 308                       | 311                             | -3       | -1%        | 1.8                      | A                       |                                  |                                     |                         |   |                             | 1                   | 130             |                 |
|  |            | EBT       | 447                       | 445                             | 2        | 1%         | 71.9                     | E                       |                                  | 945                                 |                         |   |                             | 200                 | 141             | 537             |
|  |            | EBr1 (I)  | 54                        | 56                              | -2       | -4%        | 69.4                     | E                       |                                  |                                     |                         | 141                                     |                             | 537                 |                 |                 |
|  |            | EBr2 (O)  | 5                         | 5                               | 0        | 4%         | 69.3                     | E                       |                                  |                                     |                         | 141                                     |                             | 537                 |                 |                 |
|  |            | WBL1 (I)  | 30                        | 31                              | -1       | -3%        | 14.7                     | B                       | 181                              | 32.1                                | C                       | 2                                       |                             | 107                 |                 |                 |
|  |            | WBL2 (O)  | 35                        | 34                              | 1        | 3%         | 10.5                     | B                       |                                  |                                     |                         | 2                                       |                             | 96                  |                 |                 |
|  |            | WTBT      | 75                        | 75                              | 1        | 1%         | 42.1                     | D                       |                                  |                                     |                         | 200                                     |                             | 26                  | 171             |                 |
|  |            | WBR1 (I)  | 18                        | 17                              | 1        | 7%         | 45.7                     | D                       |                                  |                                     |                         | 26                                      |                             | 171                 |                 |                 |
|  |            | WBR2 (O)  | 24                        | 25                              | -1       | -4%        | 44.2                     | D                       |                                  |                                     |                         | 26                                      |                             | 171                 |                 |                 |
|  |            | NBLU1 (I) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       | 2456                             | 9.9                                 | A                       | 28                                      |                             | 145                 |                 |                 |
|  |            | NBLU2 (O) | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         | 28                                      |                             | 145                 |                 |                 |
|  |            | NBIL      | 53                        | 57                              | -4       | -8%        | 82.2                     | F                       |                                  |                                     |                         | 190                                     |                             | 28                  | 145             |                 |
|  |            | NBIT      | 2426                      | 2399                            | 27       | 1%         | 8.1                      | A                       | 2487                             | 18.8                                | B                       | 1525                                    |                             | 31                  | 319             |                 |
|  |            | NBOT      | 2435                      | 2446                            | -11      | 0%         | 18.7                     | B                       |                                  |                                     |                         | 1525                                    |                             | 172                 | 661             |                 |
|  |            | NBOR      | 14                        | 15                              | -1       | -10%       | 33.3                     | C                       |                                  |                                     |                         | 1480                                    |                             | 172                 | 661             |                 |
|  |            | SBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       | 2218                             | 4.8                                 | A                       | N/A                                     |                             | N/A                 |                 |                 |
|  |            | SBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         | N/A                                     |                             | N/A                 |                 |                 |
|  |            | SBIL      | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         | N/A                                     |                             | N/A                 |                 |                 |
|  |            | SBIT      | 2213                      | 2218                            | -6       | 0%         | 4.8                      | A                       |                                  |                                     |                         | 400                                     |                             | 16                  | 198             |                 |
|  |            | SBOT      | 1959                      | 1963                            | -3       | 0%         | 33.7                     | C                       |                                  | 2335                                | 33.6                    | C                                       |                             | 415                 | 195             | 548             |
|  |            | SBOR      | 359                       | 352                             | 7        | 2%         | 32.6                     | C                       |                                  |                                     |                         | 415                                     |                             | 195                 | 548             |                 |
| Roosevelt Blvd & Summerdale Ave - Adams Ave        | Signalized | EBL1 (I)  | 3                         | 3                               | 0        | -10%       | 20.5                     | C                       | 707                              | 47.4                                | D                       | 35.4                                    | D                           | 1                   | 105             |                 |
|  |            | EBL2 (O)  | 7                         | 8                               | -1       | -7%        | 21.9                     | C                       |                                  |                                     |                         |   |                             | 1                   | 105             |                 |
|  |            | EBT       | 222                       | 232                             | -10      | -5%        | 46.4                     | D                       |                                  |                                     |                         |   |                             | 1700                | 72              | 333             |
|  |            | EBr1 (I)  | 239                       | 240                             | -1       | 0%         | 47.5                     | D                       |                                  |                                     |                         |   |                             | 300                 | 72              | 333             |
|  |            | EBr2 (O)  | 227                       | 224                             | 3        | 1%         | 49.5                     | D                       |                                  |                                     |                         |   |                             | 300                 | 72              | 333             |
|  |            | WBL1 (I)  | 71                        | 70                              | 1        | 2%         | 22.8                     | C                       | 830                              | 41.7                                | D                       |   |                             | 730                 | 149             | 519             |
|  |            | WBL2 (O)  | 434                       | 427                             | 7        | 2%         | 30.8                     | C                       |                                  |                                     |                         |   |                             | 730                 | 149             | 519             |
|  |            | WTBT      | 308                       | 309                             | -1       | 0%         | 59.8                     | E                       |                                  |                                     |                         |   |                             | 120                 | 93              | 510             |
|  |            | WBR1 (I)  | 7                         | 8                               | -1       | -17%       | 66.2                     | E                       |                                  |                                     |                         |   |                             | 730                 | 0               | 18              |
|  |            | WBR2 (O)  | 8                         | 10                              | -2       | -20%       | 58.2                     | E                       |                                  |                                     |                         |   |                             | 730                 | 179             | 555             |
|  |            | NBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       | 2182                             | 13.2                                | B                       |   |                             | N/A                 | N/A             |                 |
|  |            | NBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | 315                 | 117             | 416             |
|  |            | NBIL      | 370                       | 363                             | 7        | 2%         | 99.8                     | F                       |                                  |                                     |                         |   |                             | 450                 | 0               | 23              |
|  |            | NBIT      | 2207                      | 2182                            | 25       | 1%         | 13.2                     | B                       |                                  |                                     |                         |   |                             | 450                 | 1               | 39              |
|  |            | NBOT      | 2100                      | 2109                            | -8       | 0%         | 19.9                     | B                       | 2802                             | 21.5                                | C                       |   |                             | 450                 | 18              | 539             |
|  |            | NBOR      | 667                       | 668                             | -1       | 0%         | 26.5                     | C                       |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |
|  |            | SBLU1 (I) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |
|  |            | SBLU2 (O) | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       | 1904                             | 31.4                                | C                       |   |                             | N/A                 | N/A             |                 |
|  |            | SBIL      | N/A                       | N/A                             | N/A      | N/A        | N/A                      | -                       |                                  |                                     |                         |   |                             | N/A                 | N/A             |                 |
|  |            | SBIT      | 1903                      | 1904                            | -2       | 0%         | 31.4                     | C                       |                                  |                                     |                         |   |                             | 950                 | 121             | 600             |
|  |            | SBOT      | 1657                      | 1664                            | -7       | 0%         | 66.8                     | E                       | 1777                             | 68.0                                | E                       |   |                             | 950                 | 254             | 795             |
|  |            | SBOR      | 101                       | 99                              | 2        | 2%         | 86.9                     | F                       |                                  |                                     |                         |   |                             | 950                 | 254             | 795             |

**PM Peak - 2025 Build Preferred**

| Intersection                   | Control      | Movement           | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |  |
|--------------------------------|--------------|--------------------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|--|--|
| Roosevelt Blvd & Pratt Street  | Signalized   | E BL1 (I)          | 41                        | 41                              | 0        | 0%         | 5.5                      | A                       | 268                              | 34.2                                | C                       | 19.6                                    |                             |                     | 28              | 172             |  |  |  |
|                                |              | E BL2 (O)          | 36                        | 35                              | 1        | 2%         | 4.9                      | A                       |                                  |                                     |                         |   |                             |                     | 28              | 172             |  |  |  |
|                                |              | E BT               | 154                       | 152                             | 2        | 1%         | 46.7                     | D                       |                                  |                                     |                         |   |                             |                     | 49              | 258             |  |  |  |
|                                |              | E BR1 (I)          | 13                        | 13                              | 0        | -3%        | 46.2                     | D                       |                                  |                                     |                         |   |                             |                     | 49              | 258             |  |  |  |
|                                |              | E BR2 (O)          | 22                        | 23                              | -1       | -5%        | 41.1                     | D                       |                                  |                                     |                         |   |                             |                     | 49              | 258             |  |  |  |
|                                |              | W BL1 (I)          | 95                        | 93                              | 2        | 2%         | 7.2                      | A                       | 638                              | 29.6                                | C                       |   |                             |                     | 28              | 146             |  |  |  |
|                                |              | W BL2 (O)          | 151                       | 159                             | -8       | -5%        | 9.9                      | A                       |                                  |                                     |                         |   |                             |                     | 28              | 146             |  |  |  |
|                                |              | W BT               | 327                       | 327                             | 1        | 0%         | 44.0                     | D                       |                                  |                                     |                         |   |                             |                     | 90              | 471             |  |  |  |
|                                |              | W BR1 (I)          | 23                        | 23                              | 1        | 2%         | 39.9                     | D                       |                                  |                                     |                         |   |                             |                     | 90              | 471             |  |  |  |
|                                |              | W BR2 (O)          | 17                        | 17                              | 0        | 2%         | 45.7                     | D                       | 2441                             | 9.7                                 | A                       |   |                             |                     | 90              | 471             |  |  |  |
|                                |              | N BL1              | 79                        | 78                              | 1        | 1%         | 61.3                     | E                       |                                  |                                     |                         |   |                             |                     | 140             | 27              |  |  |  |
|                                |              | N BT               | 2379                      | 2363                            | 16       | 1%         | 7.9                      | A                       |                                  |                                     |                         |   |                             |                     | 1140            | 27              |  |  |  |
|                                |              | N BOT              | 1842                      | 1846                            | -4       | 0%         | 14.1                     | B                       |                                  |                                     |                         |   |                             |                     | 1140            | 58              |  |  |  |
|                                |              | N BOR              | 217                       | 219                             | -2       | -1%        | 14.4                     | B                       |                                  |                                     |                         |   |                             |                     | 1140            | 58              |  |  |  |
|                                |              | S BL1              | 58                        | 56                              | 2        | 3%         | 58.7                     | E                       |                                  |                                     |                         |   |                             |                     | 500             | 119             |  |  |  |
|                                |              | S BT               | 1974                      | 1968                            | 6        | 0%         | 27.0                     | C                       |                                  |                                     |                         |   |                             |                     | 500             | 119             |  |  |  |
|                                |              | S BOT              | 1331                      | 1342                            | -11      | -1%        | 26.3                     | C                       |                                  |                                     |                         |   |                             |                     | 500             | 90              |  |  |  |
|                                |              | S BOR              | 26                        | 27                              | -1       | -5%        | 25.1                     | C                       |                                  |                                     |                         |   |                             |                     | 500             | 90              |  |  |  |
| Adams Ave & Ramona Ave         | Signalized   | E BL               | 260                       | 261                             | -1       | 0%         | 48.1                     | D                       | 718                              | 48.3                                | D                       | 26.6                                    |                             |                     | 184             | 870             |  |  |  |
|                                |              | E BT               | 450                       | 451                             | 0        | 0%         | 48.4                     | D                       |                                  |                                     |                         |   |                             |                     | 184             | 870             |  |  |  |
|                                |              | E BR               | 5                         | 6                               | -1       | -12%       | 49.7                     | D                       |                                  |                                     |                         |   |                             |                     | 173             | 855             |  |  |  |
|                                |              | W BL               | 1                         | 1                               | 0        | 5%         | 27.4                     | C                       |                                  |                                     |                         |   |                             |                     | 1               | 47              |  |  |  |
|                                |              | W BT               | 12                        | 11                              | 1        | 6%         | 30.8                     | C                       | 26                               | 25.1                                | C                       |   |                             |                     | 1               | 47              |  |  |  |
|                                |              | W BR               | 14                        | 14                              | 0        | 0%         | 20.5                     | C                       |                                  |                                     |                         |   |                             |                     | 2               | 65              |  |  |  |
|                                |              | N BL               | 21                        | 24                              | -3       | -13%       | 25.3                     | C                       |                                  |                                     |                         |   |                             |                     | 23              | 160             |  |  |  |
|                                |              | N BT               | 554                       | 549                             | 5        | 1%         | 15.7                     | B                       |                                  |                                     |                         |   |                             |                     | 23              | 160             |  |  |  |
|                                |              | N BR               | 28                        | 26                              | 2        | 8%         | 16.5                     | B                       | 606                              | 16.1                                | B                       |   |                             |                     | 50              | 217             |  |  |  |
|                                |              | S BL               | 8                         | 10                              | -2       | -18%       | 22.3                     | C                       |                                  |                                     |                         |   |                             |                     | 42              | 419             |  |  |  |
|                                |              | S BT               | 527                       | 534                             | -7       | -1%        | 19.4                     | B                       |                                  |                                     |                         |   |                             |                     | 42              | 419             |  |  |  |
|                                |              | S BR               | 343                       | 344                             | -1       | 0%         | 11.1                     | B                       |                                  |                                     |                         |   |                             |                     | 42              | 419             |  |  |  |
| Summerdale Ave and Godfrey Ave | Unsignalized | E BT               | 6                         | 7                               | -1       | -10%       | 31.0                     | D                       | 210                              | 14.7                                | B                       | 52.8                                    |                             |                     | 13              | 162             |  |  |  |
|                                |              | E BR               | 204                       | 203                             | 1        | 0%         | 14.1                     | B                       |                                  |                                     |                         |   |                             |                     | 19              | 180             |  |  |  |
|                                |              | W BL               | 7                         | 9                               | -2       | -25%       | 21.7                     | C                       |                                  |                                     |                         |   |                             |                     | 1               | 52              |  |  |  |
|                                |              | W BT               | 0                         | 0                               | 0        | N/A        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     | 1               | 59              |  |  |  |
|                                |              | WBR to Pratt       | 2                         | 2                               | 0        | -14%       | 19.1                     | C                       | 14                               | 20.3                                | C                       |   |                             |                     | 0               | 41              |  |  |  |
|                                |              | WBR to Summerdale  | 2                         | 3                               | 0        | -19%       | 16.6                     | C                       |                                  |                                     |                         |   |                             |                     | 0               | 41              |  |  |  |
|                                |              | N BL               | 196                       | 196                             | 1        | 0%         | 75.0                     | F                       | 722                              | 78.4                                | F                       |   |                             |                     | 338             | 1328            |  |  |  |
|                                |              | N BT               | 532                       | 505                             | 27       | 5%         | 79.9                     | F                       |                                  |                                     |                         |   |                             |                     | 374             | 1391            |  |  |  |
|                                |              | N BR               | 23                        | 21                              | 2        | 8%         | 74.4                     | F                       |                                  |                                     |                         |   |                             |                     | 342             | 1335            |  |  |  |
|                                |              | S BL               | 9                         | 9                               | 1        | 8%         | 49.8                     | E                       |                                  |                                     |                         |   |                             |                     | 92              | 559             |  |  |  |
|                                |              | S BT               | 478                       | 474                             | 4        | 1%         | 31.6                     | D                       | 483                              | 31.9                                | D                       |   |                             |                     | 92              | 559             |  |  |  |
| Summerdale Ave and Pratt St    | Signalized   | E BL               | 6                         | 6                               | 0        | 0%         | 16.2                     | B                       | 41                               | 16.3                                | B                       | 51.4                                    |                             |                     | 3               | 82              |  |  |  |
|                                |              | E BT               | 36                        | 34                              | 1        | 4%         | 16.3                     | B                       |                                  |                                     |                         |   |                             |                     | 3               | 82              |  |  |  |
|                                |              | W BL to Summerdale | 5                         | 6                               | 0        | -5%        | 19.1                     | B                       |                                  |                                     |                         |   |                             |                     | 5               | 125             |  |  |  |
|                                |              | W BL to Godfrey    | 1                         | 1                               | 0        | 5%         | 33.5                     | C                       | 93                               | 13.9                                | B                       |   |                             |                     | 5               | 125             |  |  |  |
|                                |              | W BT               | 45                        | 41                              | 4        | 8%         | 15.9                     | B                       |                                  |                                     |                         |   |                             |                     | 5               | 125             |  |  |  |
|                                |              | W BR               | 42                        | 41                              | 1        | 2%         | 10.8                     | B                       | 533                              | 79.6                                | E                       |   |                             |                     | 11              | 161             |  |  |  |
|                                |              | N BT               | 505                       | 505                             | 0        | 0%         | 79.9                     | E                       |                                  |                                     |                         |   |                             |                     | 374             | 1391            |  |  |  |
|                                |              | N BR               | 27                        | 28                              | -1       | -2%        | 73.6                     | E                       |                                  |                                     |                         |   |                             |                     | 392             | 1423            |  |  |  |
|                                |              | S BL               | 35                        | 37                              | -2       | -6%        | 41.3                     | D                       |                                  |                                     |                         |   |                             |                     | 92              | 559             |  |  |  |
|                                |              | S BT               | 481                       | 474                             | 7        | 1%         | 31.6                     | C                       | 532                              | 32.0                                | C                       |   |                             |                     | 92              | 559             |  |  |  |
|                                |              | S BR               | 17                        | 18                              | -1       | -5%        | 23.6                     | C                       |                                  |                                     |                         |   |                             |                     | 84              | 546             |  |  |  |
| Summerdale Ave and Bridge St   | Signalized   | E BL               | 7                         | 7                               | 0        | -1%        | 16.6                     | B                       | 94                               | 15.3                                | B                       | 21.2                                    |                             |                     | 7               | 98              |  |  |  |
|                                |              | E BT               | 78                        | 78                              | 0        | 0%         | 14.9                     | B                       |                                  |                                     |                         |   |                             |                     | 7               | 98              |  |  |  |
|                                |              | E BR               | 9                         | 8                               | 1        | 11%        | 17.7                     | B                       |                                  |                                     |                         |   |                             |                     | 7               | 98              |  |  |  |
|                                |              | W BL               | 26                        | 25                              | 1        | 5%         | 19.1                     | B                       | 119                              | 17.1                                | B                       |   |                             |                     | 10              | 113             |  |  |  |
|                                |              | W BT               | 51                        | 51                              | 0        | 1%         | 16.5                     | B                       |                                  |                                     |                         |   |                             |                     | 10              | 113             |  |  |  |
|                                |              | W BR               | 42                        | 43                              | -1       | -3%        | 16.6                     | B                       | 552                              | 18.0                                | B                       |   |                             |                     | 10              | 113             |  |  |  |
|                                |              | N BL               | 11                        | 11                              | 0        | -2%        | 24.7                     | C                       |                                  |                                     |                         |   |                             |                     | 45              | 356             |  |  |  |
|                                |              | N BT               | 509                       | 512                             | -3       | -1%        | 17.9                     | B                       | 536                              | 26.5                                | C                       |   |                             |                     | 45              | 356             |  |  |  |
|                                |              | N BR               | 24                        | 25                              | 0        | -2%        | 18.7                     | B                       |                                  |                                     |                         |   |                             |                     | 45              | 356             |  |  |  |
|                                |              | S BL               | 27                        | 29                              | -2       | -7%        | 30.7                     | C                       | 519                              | 15.9                                | B                       |   |                             |                     | 70              | 510             |  |  |  |
|                                |              | S BT               | 490                       | 495                             | -6       | -1%        | 26.3                     | C                       |                                  |                                     |                         |   |                             |                     | 70              | 510             |  |  |  |
|                                |              | S BR               | 8                         | 8                               | 0        | 4%         | 23.6                     | C                       |                                  |                                     |                         |   |                             |                     | 70              | 510             |  |  |  |
| Summerdale Ave and Sanger St   | Signalized   | E BL               | 4                         | 5                               | 0        | -10%       | 12.2                     | B                       | 31                               | 12.4                                | B                       | 15.8                                    |                             |                     | 2               | 51              |  |  |  |
|                                |              | E BT               | 21                        | 22                              | -1       | -2%        | 14.1                     | B                       |                                  |                                     |                         |   |                             |                     | 2               | 51              |  |  |  |
|                                |              | E BR               | 6                         | 5                               | 1        | 21%        | 5.4                      | A                       |                                  |                                     |                         |   |                             |                     | 4               | 83              |  |  |  |
|                                |              | W BL               | 17                        | 17                              | 0        | 1%         | 16.5                     | B                       | 44                               | 13.8                                | B                       |   |                             |                     | 3               | 57              |  |  |  |
|                                |              | W BT               | 14                        | 14                              | 0        | -1%        | 16.9                     | B                       |                                  |                                     |                         |   |                             |                     | 6               | 87              |  |  |  |
|                                |              | W BR               | 14                        | 14                              | 0        | 0%         | 7.1                      | A                       | 550                              | 16.1                                | B                       |   |                             |                     | 40              | 334             |  |  |  |
|                                |              | N BL               | 9                         | 10                              | -1       | -7%        | 20.3                     | C                       |                                  |                                     |                         |   |                             |                     | 40              | 334             |  |  |  |
|                                |              | N BT               | 522                       | 522                             | -1       | 0%         | 16.0                     | B                       | 519                              | 15.9                                | B                       |   |                             |                     | 53              | 367             |  |  |  |
|                                |              | N BR               | 13                        | 13                              | -1       | -5%        | 14.4                     | B                       |                                  |                                     |                         |   |                             |                     | 35              | 280             |  |  |  |
|                                |              | S BL               | 8                         | 8                               | 0        | 4%         | 21.8                     | C                       |                                  |                                     |                         |   |                             |                     | 35              | 280             |  |  |  |
|                                |              | S BT               | 491                       | 500                             | -10      | -2%        | 15.8                     | B                       |                                  |                                     |                         |   |                             |                     | 48              |                 |  |  |  |

**PM Peak - 2025 Build Preferred**

| Intersection                      | Control    | Movement | Peak Hour Demand (veh/hr) | Movement VISSIM Volume (veh/hr) | $\Delta$ | $\Delta$ % | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |
|-----------------------------------|------------|----------|---------------------------|---------------------------------|----------|------------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------|--|
| Summerdale Ave and Cheltenham Ave | Signalized | EBL      | 6                         | 6                               | 1        | 10%        | 15.9                     | B                       | 27                               | 13.4                                | B                       | 16.0                                    | B                           | 2                   | 52              |                 |  |
|                                   |            | EBT      | 16                        | 16                              | -1       | -4%        | 12.3                     | B                       |                                  |                                     |                         |   |                             | 2                   | 52              |                 |  |
|                                   |            | EBR      | 5                         | 5                               | 0        | 5%         | 14.2                     | B                       |                                  |                                     |                         |   |                             | 2                   | 52              |                 |  |
|                                   |            | WBL      | 21                        | 22                              | -1       | -5%        | 15.6                     | B                       | 43                               | 15.6                                | B                       |   |                             | 3                   | 51              |                 |  |
|                                   |            | WBT      | 16                        | 15                              | 1        | 3%         | 16.7                     | B                       |                                  |                                     |                         |   |                             | 3                   | 51              |                 |  |
|                                   |            | WBR      | 6                         | 6                               | 0        | 6%         | 12.5                     | B                       |                                  |                                     |                         |   |                             | 3                   | 51              |                 |  |
|                                   |            | NBL      | 8                         | 8                               | 0        | 1%         | 22.0                     | C                       | 536                              | 18.0                                | B                       |   |                             | 44                  | 485             |                 |  |
|                                   |            | NBT      | 512                       | 511                             | 1        | 0%         | 18.0                     | B                       |                                  |                                     |                         |   |                             | 44                  | 485             |                 |  |
|                                   |            | NBR      | 12                        | 12                              | -1       | -6%        | 16.9                     | B                       |                                  |                                     |                         |   |                             | 44                  | 485             |                 |  |
|                                   |            | SEB      | 6                         | 7                               | -1       | -14%       | 18.8                     | B                       | 517                              | 14.1                                | B                       |   |                             | 29                  | 252             |                 |  |
|                                   |            | SBT      | 487                       | 496                             | -9       | -2%        | 14.1                     | B                       |                                  |                                     |                         |   |                             | 29                  | 252             |                 |  |
|                                   |            | SBR      | 12                        | 11                              | 0        | 3%         | 10.8                     | B                       |                                  |                                     |                         |   |                             | 29                  | 252             |                 |  |
| Summerdale Ave and Oxford Ave     | Signalized | EBL      | 23                        | 21                              | 2        | 8%         | 21.0                     | C                       | 649                              | 17.6                                | B                       | 27.1                                    | C                           | 45                  | 401             |                 |  |
|                                   |            | EET      | 448                       | 440                             | 8        | 2%         | 17.8                     | B                       |                                  |                                     |                         |   |                             | 45                  | 401             |                 |  |
|                                   |            | EBR      | 179                       | 184                             | -6       | -3%        | 16.6                     | B                       |                                  |                                     |                         |   |                             | 45                  | 401             |                 |  |
|                                   |            | WBL      | 6                         | 5                               | 1        | 14%        | 20.5                     | C                       | 350                              | 12.7                                | B                       |   |                             | 17                  | 205             |                 |  |
|                                   |            | WBT      | 317                       | 314                             | 3        | 1%         | 12.8                     | B                       |                                  |                                     |                         |   |                             | 17                  | 205             |                 |  |
|                                   |            | WBR      | 29                        | 31                              | -1       | -4%        | 10.7                     | B                       |                                  |                                     |                         |   |                             | 17                  | 205             |                 |  |
|                                   |            | NBL      | 141                       | 140                             | 1        | 0%         | 69.8                     | E                       | 506                              | 54.3                                | D                       |   |                             | 122                 | 602             |                 |  |
|                                   |            | NBT      | 355                       | 360                             | -5       | -1%        | 48.4                     | D                       |                                  |                                     |                         |   |                             | 122                 | 602             |                 |  |
|                                   |            | NBR      | 2                         | 2                               | 0        | 5%         | 36.1                     | D                       |                                  |                                     |                         |   |                             | 122                 | 602             |                 |  |
|                                   |            | SEB      | 34                        | 32                              | 2        | 5%         | 28.1                     | C                       | 345                              | 20.3                                | C                       |   |                             | 28                  | 243             |                 |  |
|                                   |            | SBT      | 296                       | 299                             | -3       | -1%        | 19.5                     | B                       |                                  |                                     |                         |   |                             | 28                  | 243             |                 |  |
|                                   |            | SBR      | 15                        | 15                              | 0        | 1%         | 19.0                     | B                       |                                  |                                     |                         |   |                             | 28                  | 243             |                 |  |



# Roosevelt Boulevard

**Section 2 – Appendix 7**

**2025 BAT Lane/Crossover  
Mitigation Summary**

**June 2019**

## **BACKGROUND**

The City of Philadelphia is proposing to convert the outer lanes of two segments—from 9th Street to Pratt Street and from Bustleton Avenue to the Buck's county line—along Roosevelt Boulevard into Business Access and Transit (BAT) lanes by 2025. BAT lanes would be restricted to buses and vehicles wishing to turn generally within 200 feet of an intersection or driveway.

The potential impacts of the BAT lane implementation on crossover operations in the northern segment of Roosevelt Boulevard were examined. The approach and results are presented below.. A map of the study area is presented in Figure 1. This segment was selected, given its priority for BAT implementation by 2021 to provide reliable bus service along the Boulevard.

Previously, operations of the Boulevard with the BAT lane were analyzed using a VISSIM model with Dynamic Traffic Assignment (DTA) routing. Due to a limitation in DTA routing, vehicles used alternate paths instead of the crossovers. As a result, the true impact of BAT lanes on the crossovers may not have been fully captured.

Localized VISSIM models with static routing through the crossovers were developed to test the operations with “fixed” (2025) volumes on crossovers and mainline Boulevard. The models for this analysis built on the previously developed network-wide 2025 No Build VISSIM models.

DVRPC’s 2007 study on the Boulevard that included crossovers analysis was also reviewed<sup>1</sup>. This analysis is more qualitative in nature. Insights from this study were considered but the modeling was used comprehensively to analyze these crossovers.

The methodology and assumptions below were agreed upon by the City, PennDOT, and HNTB on March 20, 2019.

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<sup>1</sup> US 1 Roosevelt Boulevard Corridor Study (2007). <https://www.dvRPC.org/reports/07032.pdf>

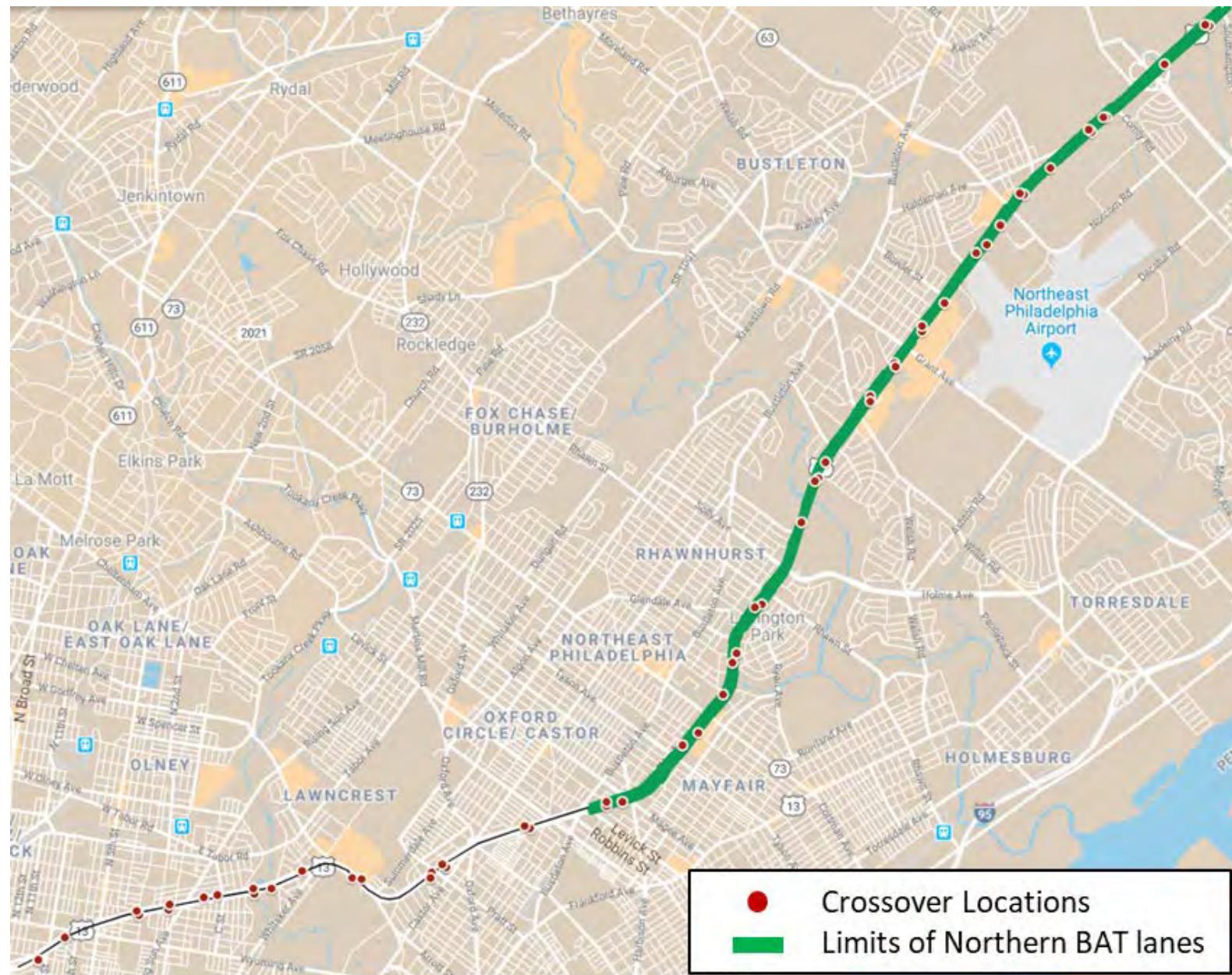


Figure 1: Study Area

## METHODOLOGY

There are 34 crossovers along Roosevelt Boulevard north of Bustleton Avenue in northbound and southbound directions combined. There are 68 potential scenarios as each crossover has AM and PM peak conditions. As presented in Figure 2, 11 subject crossovers were selected to be analyzed with and without mitigation measures using VISSIM models. Nine, crossovers were included in the models as they are adjacent to the subject crossovers. A qualitative assessment was performed for the remaining 14 crossovers. The crossover type, location and volumes are presented in Table 1.

### Crossover Selection

The 11 subject crossovers were selected by identifying the highest-volume<sup>2</sup> crossovers in both the peak hours. In general, in-to-out crossovers have lower volume compared to out-to-in. As the impact of a BAT lane is more pronounced on in-to-out crossovers, we made one exception where the in-to-out crossover at Lott Street (in PM peak) with slightly lower volume was chosen over an out-to-in crossover at Conwell Avenue (in AM peak). There are various factors that impact crossover operations including:

- Crossover volume
- Short storage length
- Lack of signage
- Bus stop in close vicinity
- Movement of traffic from inner-to-outer lanes versus and outer-to-inner lanes
- Proximity to a signal
- High weaving behavior leading up to the crossover or immediately after the crossover

### Field Observations

Field visits were conducted on February 26<sup>th</sup> and 27<sup>th</sup>, 2019 to validate the 11 selected crossovers cover the key factors that impact crossover operations. Overall observations are listed below:

- Out of the 34 crossovers, spillbacks occurred at a handful of crossovers under existing conditions without a BAT lane.
- The merging and diverging via the crossovers were not challenging at most of the locations. Lower conflicting mainline volume on the Boulevard in the north compared to southern section (between Pratt Street and 9<sup>th</sup> Street) was a contributing factor. Overall, we found that during the mainline red phase at the upstream signalized intersection, crossover traffic was able to easily find gaps to merge.
- A small percentage of vehicles in the crossovers did not slow down to yield to the mainline traffic which poses a safety risk. This issue could be addressed using (modified) yield signs for the crossover traffic.

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<sup>2</sup> 2015 Crossover volumes: <https://www.google.com/maps/d/u/1/edit?mid=1cRsGaUGxWiJPo1-ZZZJjZRD-qKNbSp-O&ll>



**Figure 2: Nature of Analysis Performed at Each Crossover**

**Table 1 – Crossover Volume and Type**

| ID    | Crossover Location   | Type      | Direction | Crossover Volume (vph) |         |
|-------|----------------------|-----------|-----------|------------------------|---------|
|       |                      |           |           | 2015 AM                | 2015 PM |
| 1 NB  | Hellerman / Elbridge | Out to In | NB        | 85                     | 69      |
| 2 NB  | Bradford Terrace     | In to Out | NB        | 112                    | 136     |
| 3 NB  | St Vincent St        | In to Out | NB        | 81                     | 163     |
| 4 NB  | Revere St            | Out to In | NB        | 214                    | 188     |
| 5 NB  | Loney St             | In to Out | NB        | 109                    | 101     |
| 6 NB  | Winchester Ave       | In to Out | NB        | 382                    | 376     |
| 7 NB  | Woodward St          | Out to In | NB        | 100                    | 126     |
| 8 NB  | Goodnaw St           | In to Out | NB        | 54                     | 72      |
| 9 NB  | Michener St          | Out to In | NB        | 31                     | 63      |
| 10 NB | Fulmer St            | Out to In | NB        | 21                     | 31      |
| 11 NB | Lott St              | In to Out | NB        | 130                    | 113     |
| 12 NB | Conwell Ave          | Out to In | NB        | 116                    | 109     |
| 13 NB | Whitten St           | In to Out | NB        | 69                     | 69      |
| 14 NB | Greymont St          | Out to In | NB        | 27                     | 33      |
| 15 NB | Haldeman Ave         | In to Out | NB        | 27                     | 39      |
| 16 NB | Plaza Dr             | Out to In | NB        | 18                     | 24      |
| 17 NB | Bennett Rd           | In to Out | NB        | 62                     | 55      |
| 18 NB | Woodhaven Rd         | In to Out | NB        | 13                     | 20      |
| 19 NB | Crown Way            | Out to In | NB        | 340                    | 283     |
| 1 SB  | Crown Way            | In to Out | SB        | 27                     | 47      |
| 2 SB  | Bennett Rd           | In to Out | SB        | 30                     | 54      |
| 3 SB  | Plaza Dr             | Out to In | SB        | 59                     | 94      |
| 4 SB  | Greymont St          | In to Out | SB        | 51                     | 101     |
| 5 SB  | Conwell Ave          | In to Out | SB        | 11                     | 28      |
| 6 SB  | Fulmer St            | Out to In | SB        | 91                     | 114     |
| 7 SB  | Michener St          | Out to In | SB        | 35                     | 81      |
| 8 SB  | Goodnaw St           | In to Out | SB        | 36                     | 93      |
| 9 SB  | Winchester Ave       | In to Out | SB        | 26                     | 37      |
| 10 SB | Strahle St           | Out to In | SB        | 129                    | 159     |
| 11 SB | Ryan Ave             | In to Out | SB        | 40                     | 54      |
| 12 SB | Faunce St            | Out to In | SB        | 216                    | 193     |
| 13 SB | Bleigh Ave           | In to Out | SB        | 118                    | 144     |
| 14 SB | Princeton Ave        | Out to In | SB        | 151                    | 251     |
| 15 SB | Hellerman / Elbridge | Out to In | SB        | 20                     | 45      |

XX Subject crossover - modeled

XX Non-subject crossover - modeled

XX Qualitative assessment as crossover was not modeled

## Volume Development

BAT lanes in the northern section are proposed to be implemented by 2021. However, the analysis year is assumed to be 2025 to be conservative. AM and PM peak hour volumes from 2015 were grown by 10 percent to develop 2025 volumes.

Converting the right-most lane of the outer facility into a BAT lane might result in vehicles shifting to inner lanes. The 2025 No Build VISSIM DTA model could not be used to project the shift in crossover volumes as DTA VISSIM analysis is limited in accurately showing the crossover volumes. To project the traffic that could possibly shift due between inner and outer facility, the percentage of traffic in the inner versus outer lanes from the 2015 counts was compared to the percentages from the 2025 No Build VISSIM DTA model<sup>3</sup> with BAT lanes in the northern section. In the non-peak direction of travel (northbound for AM and southbound for PM), an average of 6 percent and 4 percent of the vehicles, in the AM and PM respectively, shift to the inner lanes (from outer lanes) in the 2025 No Build scenario. In the peak direction of travel, the shift from the outer to inner lanes is almost non-existent when comparing the two scenarios.

Assumptions for volume development include:

- In the peak direction (southbound in AM, northbound in PM):
  - Grow 2015 volumes by 10 percent to develop 2025 volumes
  - Assume no shift between the outer and inner lanes as a result of the BAT lane
- In the non-peak direction (northbound in AM, southbound in PM):
  - Grow 2015 volumes by 10 percent to develop 2025 volumes
  - Shift 5 percent of the outer lanes volume to the inner lanes
  - Increase all crossover volumes by 5 percent

A sample calculation for the PM peak hour is shown in Figure 3.

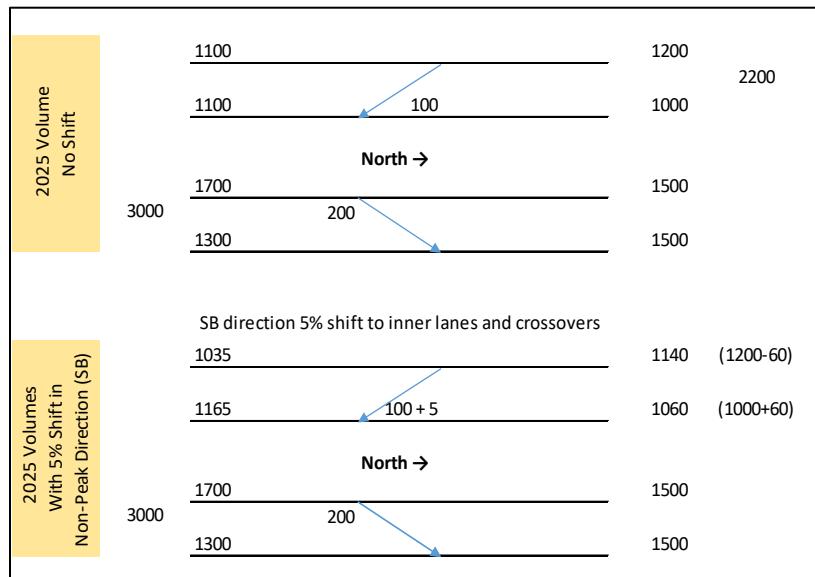


Figure 3: PM Peak Volume Shift Example

<sup>3</sup> Note that the OD (Origin-Destination matrix) is different between 2015 and 2025 which could play a role in the volume differences in the outer and inner lanes in these two scenarios.

## Analysis Criteria

The primary goal of the crossover analysis was to verify that there is sufficient storage available to safely contain the queues from vehicles in the crossovers and not block mainline traffic when BAT Lanes are installed. The study team evaluated the crossovers and provide recommendation based on multiple criteria listed below:

- Current crossover performance: Crossovers were evaluated qualitatively based on observations from the February 2019 field visit and Skycomp aerial imagery from 2015. Mitigations were proposed if it was observed that queues were spilling beyond the available storage or if other safety concerns were observed.
- 2025 crossover performance: Localized VISSIM models with static routing covering the subject crossover and two adjacent intersections (one upstream and one downstream) were developed. The 95th percentile queues for each crossover was compared against the existing and required storage lengths. Existing storage was measured using Google Earth. The required storage was determined using the 2025 volumes and the left-turn lane storage calculation in PennDOT Publication 46 Section 11.16<sup>4</sup>.
- Impact from other elements: Impact of elements such as downstream traffic signals was considered in evaluating the crossovers. Figure 4 is a SkyComp aerial image taken in the 2015 AM Peak Hour showing the queues from the inner lanes blocking the Plaza Drive SB Out to In Crossover. Although this location was not modeled, a mitigation was proposed to move this crossover north based on a qualitative assessment. Other elements include but not limited to nearby crossovers, upstream and downstream weaving.
- DVRPC recommendations: the recommendations from the 2007 DVRPC Report were reviewed to see if its findings aligned with the recommendations of this study. As the DVRPC study was more qualitative in nature, the results of the current modelling were weighed more when proposing mitigations.



Figure 4: Plaza Drive SB Out to In Crossover

<sup>4</sup> PennDOT Traffic Engineering Manual: <http://www.dot.state.pa.us/public/PubsForms/Publications/PUB%2046.pdf>

## **ANALYSIS FINDINGS**

Five (5) VISSIM models were developed covering the limits presented in Table 2. In this section, analysis findings at the crossovers are discussed in detail under each of these modeling segments. 2025 Volume diagrams for these segments are presented in Appendix A and detailed operational analysis results are included in Appendix B.

**Table 2: VISSIM Models by Time Period**

| ID | VISSIM Model Limits           | AM | PM |
|----|-------------------------------|----|----|
| 1  | Bustleton Ave to Harbison Ave | N  | Y  |
| 2  | Tyson Ave to Ryan Ave         | Y  | Y  |
| 3  | Strahle St to Woodward St     | Y  | Y  |
| 4  | Grant Ave to Bowler St        | Y  | Y  |
| 5  | Crown Way to Southampton Rd   | Y  | Y  |

### **Bustleton Avenue to Harbison Avenue**

There are three (3) crossovers on the Boulevard between Bustleton Avenue to Harbison Avenue as shown in Figure 5.

#### 2 NB: Bradford Terrace NB In to Out Crossover

The Bradford Terrace NB In to Out (2NB) crossover had high levels of queuing under the 2025 PM No Build scenario. The addition of the BAT lane resulted in longer queues at the downstream Harbison Avenue intersection which blocked the Bradford Terrace crossover. The queues from the Bradford Terrace crossover in turn blocked the Hellerman NB Out to In (1NB) crossover upstream. The queuing issues from both crossovers resulted in bottlenecks along both NB inner and outer lanes between Levick Street and Harbison Avenue as illustrated in Figure 6.

To mitigate the issues at the Bradford Terrace crossover (2NB), a scenario where the crossover was moved north of Unruh Street was tested. This mitigation alleviated the NB bottleneck between Levick Street and Bustleton Avenue. It is recommended that the new crossover be extended by 65 feet to 200 feet.

#### 15 SB: Hellerman Street SB Out to In Crossover

Hellerman Street SB Out to In (15SB) crossover is blocked by downstream queues at the Levick Street signal during the PM peak as shown in Figure 7. To resolve this issue, it is recommended that the crossover be moved 400 feet north.

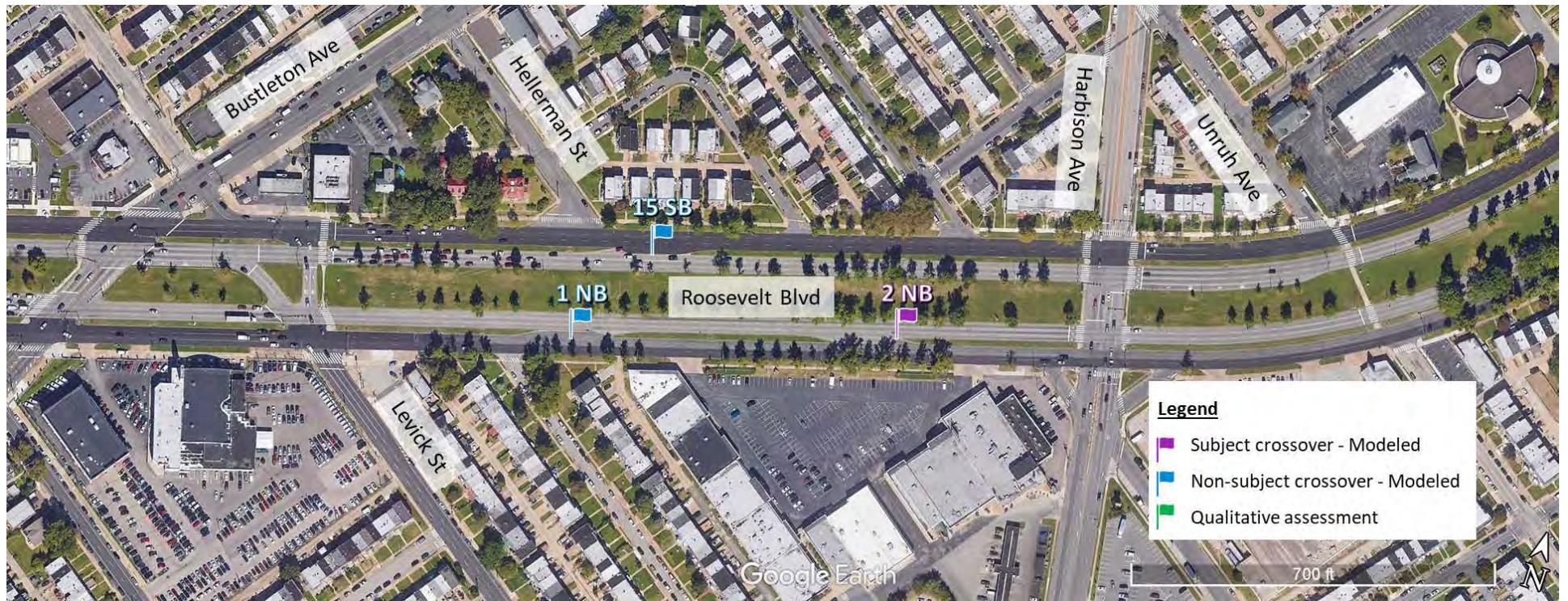


Figure 5: Crossovers between Bustleton Avenue to Harbison Avenue

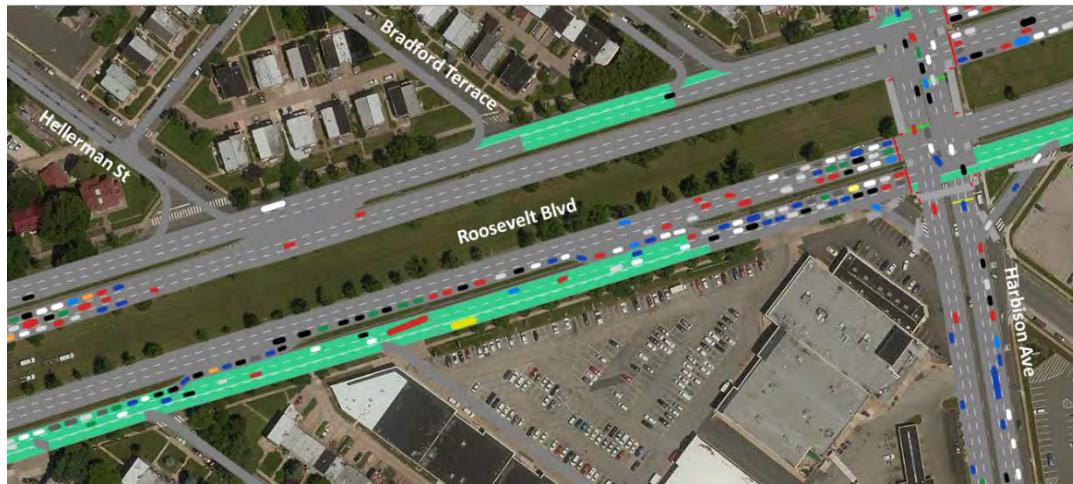


Figure 6: Bradford Terrace NB Crossover Queueing



Figure 7: Hellerman Street SB Crossover Queueing

## **Tyson Avenue to Ryan Avenue**

There are five (5) crossovers on the Boulevard between Tyson Avenue to Ryan Avenue as illustrated in Figure 8.

### 3 NB: St Vincent Street NB and 13 SB: Bleigh Avenue SB In to Out Crossovers

The St Vincent Street NB (3NB) and Bleigh Avenue SB (13SB) In to Out Crossovers have add-lanes that become left turn only lanes at Cottman Avenue. During the field visits weaving conflicts were observed between the cars along the outer lane trying to make a left turn at Cottman Avenue and cars merging from the St Vincent Street and Bleigh Avenue crossovers due to the lack of signage. Figure 9 shows the weaving issue at these locations. It is recommended that the City install yield signs at these two crossovers to improve safety.

### 4 NB: Revere Street NB Out to In Crossover

The Revere Street NB Out to In (4NB) crossover was observed in the field to have queuing issues during the AM peak period. It is recommended that this crossover be extended by 110 feet to 250 feet. The grade difference between the inner and outer lanes, as shown in Figure 10, presents an issue for extending the crossover. It is not feasible to safely extend the crossover on the north side due to the vertical grade differential between the inner and outer lanes. Additionally, there is a crosswalk immediately south of the crossover.

The build option that was analyzed in VISSIM is shown in Figure 11. In this scenario, the crosswalk was re-aligned north to tie-in at Revere Street and the crossover was moved south of the crosswalk to facilitate the crossover extension. The existing NB bus stop next to the crosswalk would also be moved to Revere Street. The offset of the crosswalk between the NB and SB lanes would be maintained to continue discouraging pedestrians from attempting to cross the Boulevard in one traffic signal cycle.

### 12 SB: Faunce Street SB Out to In Crossover

The Faunce Street SB Out to In (12SB) Crossover was observed in the field to have queuing issues in both the AM and PM peak hours. Part of the issue is due to the pedestrian signal operating in recall mode as opposed to actuated mode. Changing the signal to actuated mode can alleviate some of the queuing. Additionally, it is recommended that the crossover be extended by 35 feet to 255 feet as shown in Figure 11.

### 14 SB: Princeton Avenue SB Out to In Crossover

In the PM peak hour, field observations did not show queues on the Princeton Avenue SB Out to In (14SB) crossover spilling back on the outer lanes. Average and 95<sup>th</sup> percentile queues from VISSIM model were also within the storage length (290 feet). However, the maximum queue from VISSIM model exceeded the storage length by three feet. This was due to downstream queuing at Tyson Avenue blocking the crossover. It is recommended that the City observe the crossover after BAT lane implementation. If the queues exceed the storage length, consider moving the crossover north to just downstream of the Friendship Street signal to increase the distance to Tyson Avenue.

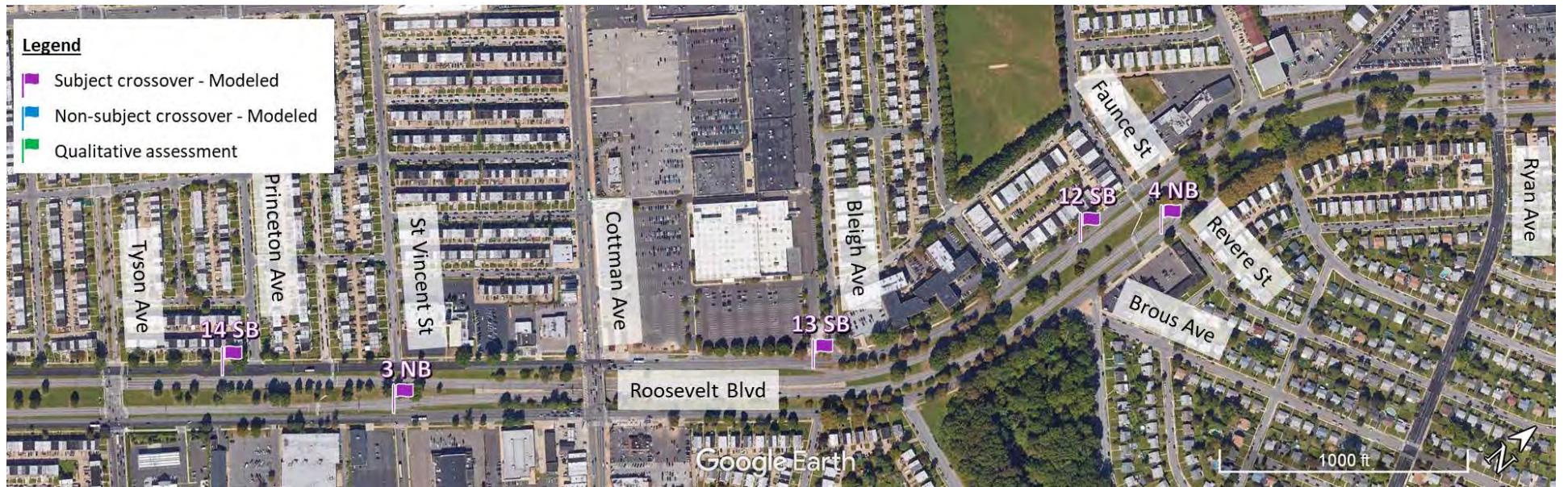


Figure 8: Crossovers between Tyson Avenue to Ryan Ave



Figure 9: St Vincent St and Bleigh Ave Crossover Weaving



Source: [https://www.google.com/maps/@40.0503984,-75.0509636,3a,75y,13.6h,83.77t/data=!3m6!1e1!3m4!1sbifndqsszb\\_i6yuctXvV-A!2e0!7i16384!8i8192](https://www.google.com/maps/@40.0503984,-75.0509636,3a,75y,13.6h,83.77t/data=!3m6!1e1!3m4!1sbifndqsszb_i6yuctXvV-A!2e0!7i16384!8i8192)

**Figure 10: Revere NB Crossover Grade Difference**



**Figure 11: Realigned Revere St NB Crossover**

## **Strahle Street to Woodward Street**

Between Strahle Street to Woodward Street, there are four crossovers on the Boulevard as illustrated in Figure 12.

The No Build VISSIM models did not show any queuing issues at the Woodward Street NB Out to In (7NB) and Winchester Avenue SB In to Out (9SB) crossovers.

### 6 NB: Winchester Avenue NB In to Out Crossover

The No Build VISSIM models showed some minor queuing at the Winchester Avenue NB In to Out (6NB) crossover. This is likely due to the increased crossover volume and reduced capacity along the outer lanes due to the BAT lane. This crossover did not exhibit any queuing issues during the 2019 field visit. As shown in Figure 13, vehicles, including trucks, did not have any issues traversing this crossover. It is recommended that the crossover be extended by 105 feet to 250 feet.

### 10 SB: Strahle Street SB Out to In crossover

There was some minor queuing at the Strahle Street SB Out to In (10SB) crossover for both peak hours in the No Build VISSIM models. As such, it is recommended that this crossover be extended by 35 feet to 155 feet.



Figure 12: Crossovers between Strahle Street to Woodward Street



Figure 13: Winchester NB In to Out Crossover

### **Grant Avenue to Bowler Street**

There are five (5) crossovers on the Boulevard between Grant Avenue to Bowler Street as illustrated in Figure 14.

The 2025 No Build Models did not show any queuing issues for any of the three (3) NB crossovers at Michener Street (9NB), Fulmer Street (10NB) and Lott Street (11NB).

#### 6 SB and 7 SB: Fulmer Street SB Out to In and Michener Street SB Out to In Crossovers

The 2025 No Build Models showed that the Fulmer Street SB Out to In (6SB) and Michener Street SB Out to In (7SB) crossovers had queues that exceeded the available storage in the PM peak hour. To resolve this, it is recommended that the Fulmer Street SB (6SB) crossover be extended by 35 feet to 160 feet and Michener Street SB (7SB) crossover be extended by 20 feet to 120 feet.

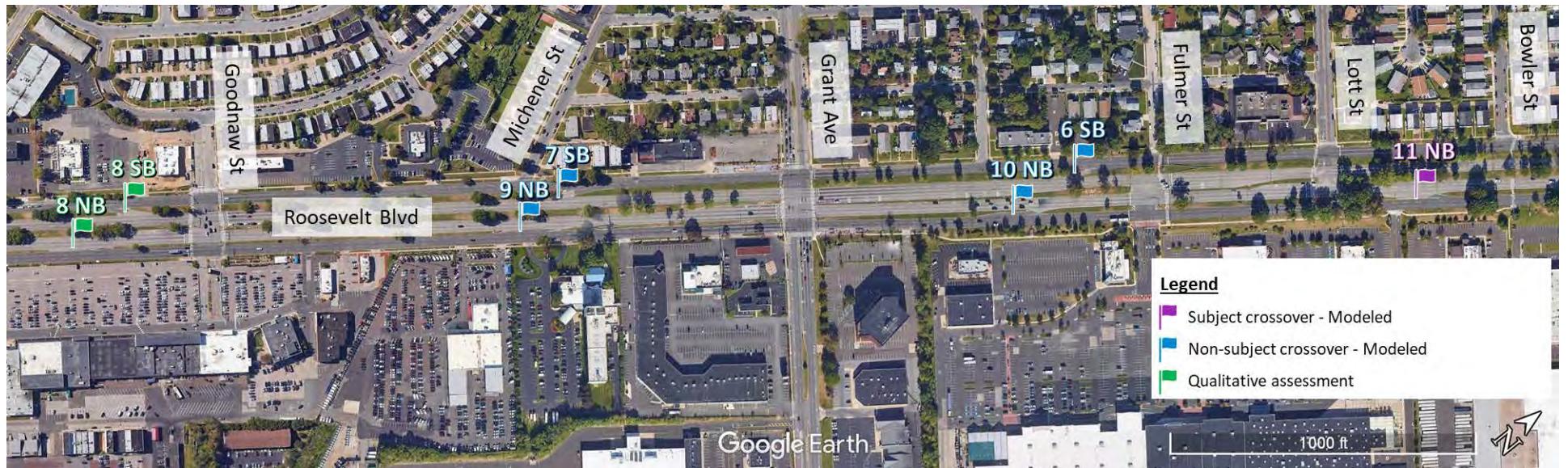


Figure 14: Crossovers between Grant Avenue to Bowler Street

## **Crown Way to Southampton Road**

Between Crown Way to Southampton Road, there are three (3) crossovers on the Boulevard as illustrated in Figure 15. Keep text in portrait format and put graphics on its own landscape page.

### **19 NB: Crown Way NB Out to In crossover**

The Crown Way NB Out to In (19NB) is a high-volume crossover with 393 and 311 vehicles respectively for the 2025 AM and PM peak hours. The crossover was observed to have some queueing issues in the AM peak during the 2019 field visit. Other issues associated with this crossover include:

- During the 2018 public forums, attendees complained about a weaving issue for drivers coming from WB Woodhaven Road and wanting to access Southampton Road west of the Boulevard, as shown in Figure 16. These drivers take the Crown Way NB Out to In crossover and then cross 4 lanes within 650 feet to be able to turn left onto Southampton Road.
- Drivers wanting to access Hornig Road from WB Woodhaven Road turn into Crown Way and make a U-turn downstream as they cannot turn left from northbound Boulevard into Hornig Road.

Two options were tested to address the issues at this crossover.

*Option 1* extended the crossover (19NB) by 150 feet to 335 feet to the South. This helped reduce some of the queuing issues but additional storage may be required to completely contain the queue from the crossover. This crossover cannot be extended South any further as it is adjacent the intersection of Crown Way. Extending the crossover to the north is problematic as it would shorten the distance for drivers to weave over to the NB left turn bay at Southampton Road. Additionally, Option 1 does not address the weaving and the access issue.

*Option 2* eliminates the Crown Way NB Out to In (19NB) Crossover and converts the Woodhaven Road WB Off Ramp to NB Roosevelt Boulevard ramp terminus to a signalized intersection. The proposed intersection is shown in Figure 17. Creating the new intersection resolved the weaving issue with Southampton Road and provides access to Hornig Road for vehicles coming from WB Woodhaven Road. Vehicles traveling along the Boulevard's NB outer lanes have an opportunity to shift to the inner lanes upstream at the Plaza Drive NB Out to In (16NB) crossover.

### **1 SB: Crown Way SB In to Out Crossover**

It is recommended that the Crown Way SB In to Out (1SB) crossover be eliminated to reduce conflicts and improve safety. Both Options 1 and 2 reflect this recommendation. This crossover is not necessary as it is only 2400 feet away from the point where Roosevelt Boulevard splits into an inner and outer facility. It is recommended that new signage be erected prior to the split so that drivers are better informed about choosing the inner and outer lanes.



Figure 15: Crown Way to Southampton Road



Figure 16: Weaving and Access issues at Woodhaven Rd, Crown Way and Southampton Rd

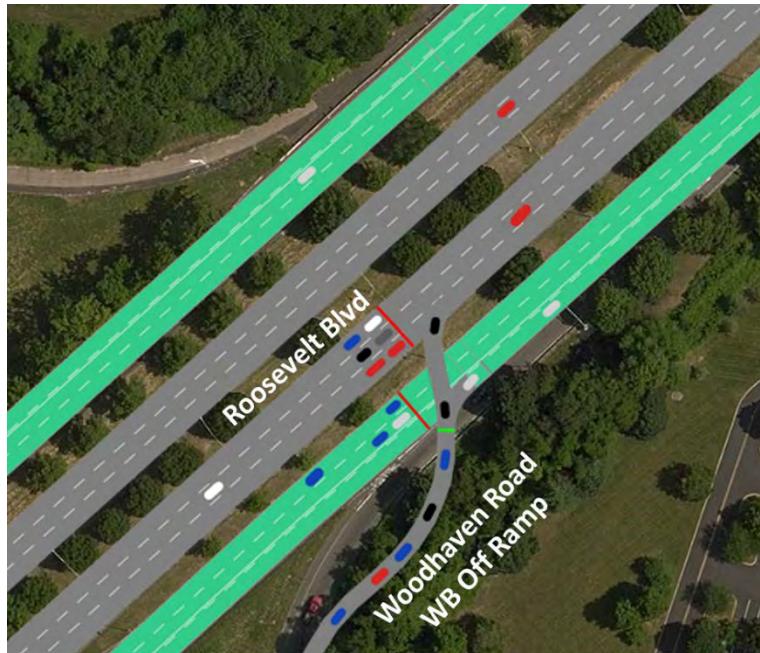


Figure 17: Crown Way Option 2

## **ANALYSIS SUMMARY AND RECOMMENDATIONS**

Table 3 summarizes the results of the VISSIM analysis and the proposed mitigations. The subsequent sections provide additional discussion of the crossovers for each modelling segment. Detailed operational analysis results are included in Appendix B.

**Table 3: Analysis Summary and Proposed Mitigation**

| Direction  | ID    | Location              | Type      | Model                 | AM Volume |       | PM Volume |       | Existing Storage (ft) | Required Storage in ft. (Pub 46 Sec 11.16) |      | 2025 No Build 95th Percentile VISSIM Queues (ft) |     |                | Build VISSIM Storage | 2025 Build 95th Percentile VISSIM Queues (ft) |     |                | DVRPC 2007 Recommendation    | Mitigation Proposed **  | Cost       |
|------------|-------|-----------------------|-----------|-----------------------|-----------|-------|-----------|-------|-----------------------|--|------|--|-----|----------------|----------------------|---|-----|----------------|------------------------------|---|------------|
|            |       |                       |           |                       | 2015      | 2025* | 2015      | 2025* |                       | 2015                                       | 2025 | AM   | PM  | max of AM (PM) |                      | AM  | PM  | max of AM (PM) |                              |   |            |
|            |       |                       |           |                       |           |       |           |       |                       |  |      |  |     |                |                      |   |     |                |                              |   |            |
| Northbound | 1 NB  | Hellerman / Elbridge  | Out to In | Bustleton to Harbison | 85        | 98    | 69        | 76    | 135                   | 75   | 75   | -  | 660 | 660            | 135                  | -   | 103 | 103            | Lengthen accel/decel         | No Action. No Build issues are caused by downstream Bradford Terrace crossover. Moving Bradford Terrace crossover resolves issue.   | \$         |
|            | 2 NB  | Bradford Terrace      | In to Out | Bustleton to Harbison | 112       | 129   | 136       | 150   | 135                   | 75   | 75   | -  | 608 | 608            | 200                  | -   | 174 | 174            | Eliminate                    | Move crossover north. Extend to by 65 ft to 200 ft.   | \$\$\$     |
|            | 3 NB  | St Vincent St         | In to Out | Tyson to Ryan         | 81        | 94    | 163       | 179   | 80                    | 75   | 75   | 0  | 0   | 0              | 80                   | 0   | 0   | 0              | No Action                    | No Action. Yield sign critical.   | \$         |
|            | 4 NB  | Revere St             | Out to In | Tyson to Ryan         | 214       | 247   | 188       | 207   | 140                   | 250  | 250  | 290  | 161 | 290            | 250                  | 206   | 158 | 206            | No Action                    | Vertical elevation difference between inner and outer lanes limits ability to extend crossover. Move crosswalk at NB lanes to align at Revere St. Move crossover south by 300 ft. Extend crossover by 110 ft to 250 ft.                               | \$\$\$\$   |
|            | 5 NB  | Loney St              | In to Out | -                     | 109       | -     | 101       | -     | -                     | 75   | 0    | -  | -   | -              | -                    | -   | -   | -              | No Action                    | Suggest field observations to verify that queues from Rhawn St do not block crossover. If queues block the crossover, move it further south.  | \$         |
|            | 6 NB  | Winchester Ave        | In to Out | Strahle to Woodward   | 382       | 441   | 376       | 414   | 145                   | 325  | 350  | 141  | 196 | 196            | 250                  | 135   | 195 | 195            | Eliminate                    | Extend crossover south by 55 ft to 200 ft.  | \$\$       |
|            | 7 NB  | Woodward St           | Out to In | Strahle to Woodward   | 100       | 116   | 126       | 139   | 125                   | 175  | 175  | 80   | 75  | 80             | 125                  | 81  | 76  | 81             | No Action                    | No Action.  | \$         |
|            | 8 NB  | Goodnaw St            | In to Out | -                     | 54        | -     | 72        | -     | -                     | 75   | -    | -  | -   | -              | -                    | -   | -   | -              | No Action                    | Suggest field observations to verify that queues from Goodnaw St do not block crossover. If queues block the crossover, move it further south.  | \$         |
|            | 9 NB  | Michener St           | Out to In | Grant to Bowler       | 31        | 36    | 63        | 69    | 140                   | 75   | 75   | 35   | 37  | 37             | 140                  | 35  | 37  | 37             | No Action                    | No Action.  | \$         |
|            | 10 NB | Fulmer St             | Out to In | Grant to Bowler       | 21        | 24    | 31        | 34    | 160                   | 75   | 75   | 54   | 56  | 56             | 160                  | 54  | 56  | 56             | Not Studied                  | Consider eliminating the crossover. Vehicles would shift to the crossover at Conwell Ave.   | \$         |
|            | 11 NB | Lott St               | In to Out | Grant to Bowler       | 130       | 150   | 113       | 124   | 150                   | 75   | 75   | 97   | 94  | 97             | 150                  | 97  | 88  | 97             | Not Studied                  | No Action.  | \$         |
|            | 12 NB | Conwell Ave           | Out to In | -                     | 116       | -     | 109       | -     | -                     | 175  | -    | -  | -   | -              | -                    | -   | -   | -              | Not Studied                  | No Action   | \$         |
|            | 13 NB | Whitten St            | In to Out | -                     | 69        | -     | 69        | -     | -                     | 75   | -    | -  | -   | -              | -                    | -   | -   | -              | Not Studied                  | No Action   | \$         |
|            | 14 NB | Greymont St           | Out to In | -                     | 27        | -     | 33        | -     | -                     | 75   | -    | -  | -   | -              | -                    | -   | -   | -              | Not Studied                  | Consider eliminating the crossover. Vehicles would shift to the crossover at Plaza Dr.  | \$         |
|            | 15 NB | Haldeman Ave          | In to Out | -                     | 27        | -     | 39        | -     | -                     | 75   | -    | -  | -   | -              | -                    | -   | -   | -              | Not Studied                  | No Action   | \$         |
|            | 16 NB | Plaza Dr              | Out to In | -                     | 18        | -     | 24        | -     | -                     | 75   | -    | -  | -   | -              | -                    | -   | -   | -              | Not Studied                  | No Action   | \$         |
|            | 17 NB | Bennett Rd            | In to Out | -                     | 62        | -     | 55        | -     | -                     | 75   | -    | -  | -   | -              | -                    | -   | -   | -              | Not Studied                  | 2015 skycomp data shows queues from Comley Rd are blocking the crossover. Consider eliminating. Vehicles would shift to the crossover at Haldeman Ave.  | \$         |
|            | 18 NB | Woodhaven Rd          | In to Out | -                     | 13        | -     | 20        | -     | -                     | 75   | -    | -  | -   | -              | -                    | -   | -   | -              | Not Studied                  | No Action   | \$         |
|            | 19 NB | Crown Way             | Out to In | Crown to Southampton  | 340       | 393   | 283       | 311   | 185                   | 325  | 350  | 472  | 242 | 472            | 335                  | 343   | 196 | 343            | Not Studied                  | Option 1: Extend crossover by 150 ft to 335 ft. Modelling still shows queuing issues. Results are for option 1.   | \$\$\$\$\$ |
| Southbound | 1 SB  | Crown Way             | In to Out | Crown to Southampton  | 27        | 30    | 47        | 54    | 225                   | 75   | 75   | 65   | 98  | 98             | -                    | -   | -   | -              | Not Studied                  | BAT lane results in longer queues from signal which block the crossover. Recommend eliminating crossover and improving lane signage upstream so vehicles are better informed when selecting inner vs outer lanes.                                     | \$         |
|            | 2 SB  | Bennett Rd            | In to Out | -                     | 30        | -     | 54        | -     | -                     | 75   | -    | -  | -   | -              | -                    | -   | -   | -              | Not Studied                  | No Action   | \$         |
|            | 3 SB  | Plaza Dr              | Out to In | -                     | 59        | -     | 94        | -     | -                     | 75   | -    | -  | -   | -              | -                    | -   | -   | -              | Not Studied                  | 2015 skycomp data shows downstream queues from Plaza Dr reaching crossover. Suggest moving it north of Comly Rd.  | \$\$       |
|            | 4 SB  | Greymont St           | In to Out | -                     | 51        | -     | 101       | -     | -                     | 75   | -    | -  | -   | -              | -                    | -   | -   | -              | Not Studied                  | 2015 skycomp data shows downstream queues from Red Lion Rd reaching crossover. Suggest moving it north by at least 150 ft.  | \$\$       |
|            | 5 SB  | Conwell Ave           | In to Out | -                     | 11        | -     | 28        | -     | -                     | 75   | -    | -  | -   | -              | -                    | -   | -   | -              | Not Studied                  | Suggest field observations to verify that queues from Conwell Ave do not block crossover. If being blocked, consider elimination. Vehicles will move to the crossover at Bennett Rd   | \$         |
|            | 6 SB  | Fulmer St             | Out to In | Grant to Bowler       | 91        | 100   | 114       | 132   | 130                   | 175  | 175  | 126  | 147 | 147            | 160                  | 118   | 132 | 132            | Not Studied                  | Extend crossover by 35 ft to 160 ft.  | \$\$       |
|            | 7 SB  | Michener St           | Out to In | Grant to Bowler       | 35        | 39    | 81        | 94    | 100                   | 75   | 75   | 65   | 116 | 116            | 120                  | 64  | 110 | 110            | No Action                    | Extend crossover by 20 ft to 120 ft.  | \$\$       |
|            | 8 SB  | Goodnaw St            | In to Out | -                     | 36        | -     | 93        | -     | -                     | 75   | 0    | -  | -   | -              | -                    | -   | -   | -              | Lengthen accel, install sign | Suggest field observations to verify that queues from Welsh Rd do not block crossover. If queues block the crossover, consider moving it further north.   | \$         |
|            | 9 SB  | Winchester Ave        | In to Out | Strahle to Woodward   | 26        | 30    | 37        | 43    | 150                   | 75   | 75   | 51   | 68  | 68             | 150                  | 51  | 68  | 68             | Eliminate                    | No Action.  | \$         |
|            | 10 SB | Strahle St            | Out to In | Strahle to Woodward   | 129       | 142   | 159       | 184   | 120                   | 225  | 225  | 104  | 130 | 130            | 155                  | 99  | 132 | 132            | Lengthen decel               | Extend crossover by 35 ft to 155 ft.  | \$\$       |
|            | 11 SB | Ryan Ave              | In to Out | Tyson to Ryan         | 40        | 44    | 54        | 62    | 200                   | 75   | 75   | 54   | 40  | 54             | 200                  | 54  | 40  | 54             | Lengthen accel/decel         | No Action.  | \$         |
|            | 12 SB | Faunce St             | Out to In | Tyson to Ryan         | 216       | 238   | 193       | 223   | 165                   | 250  | 250  | 245  | 267 | 267            | 255                  | 229   | 255 | 255            | No Action                    | Extend crossover by 90 ft to 255 ft. Vertical elevation on south side could limit ability to extend crossover. Intersection was tested with ped signals on recall per field observations. Queues would be lower if ped signals converted to actuated. | \$\$       |
|            | 13 SB | Bleigh Ave            | In to Out | Tyson to Ryan         | 118       | 130   | 144       | 166   | 265                   | 75   | 75   | 0  | 0   | 0              | 265                  | 0   | 0   | 0              | Eliminate                    | No Action. Yield sign critical.   | \$         |
|            | 14 SB | Princeton Ave         | Out to In | Tyson to Ryan         | 151       | 166   | 251       | 290   | 290                   | 250  | 275  | 119  | 242 | 242            | 290                  | 112   | 188 | 188            | No Action                    | No Action. Build tested with crossover moved north, just south of Friendship St signal. However, No Build 95th percentile queue within storage. Recommend observations after BAT lane implementation.   | \$         |
|            | 15 SB | Hellerman / Elbridge^ | Out to In | Bustleton to Harbison | 20        | 22    | 45        | 52    | 140                   | 75   | 75   | -  | 274 | 274            | 140                  | -   | 79  | 79             | Eliminate                    | Move crossover north by 400 ft, maintain existing length. Existing crossover failing due to the signal at Levick St.  | \$\$\$     |

\*Calculated by increasing 2015 volumes by 15% in the off-peak direction and 10% in the peak direction

\*\*Add yield signs for all crossovers

^Failure reported by SEPTA and City

XX Subject crossover - modeled

XX Non-subject crossover - modeled

XX Qualitative assessment as crossover was not modeled - not scoped

## Exceeds Existing storage

## Option#1 exceeds Build Condition storage

## **APPENDIX A: VOLUME DIAGRAMS**

The 2025 No Build Volume diagrams for the nine models are presented in Figure A - 1 through Figure A - 5.

**Figure A - 1: Bustleton Avenue to Harbison Avenue (PM) Volume Diagram**

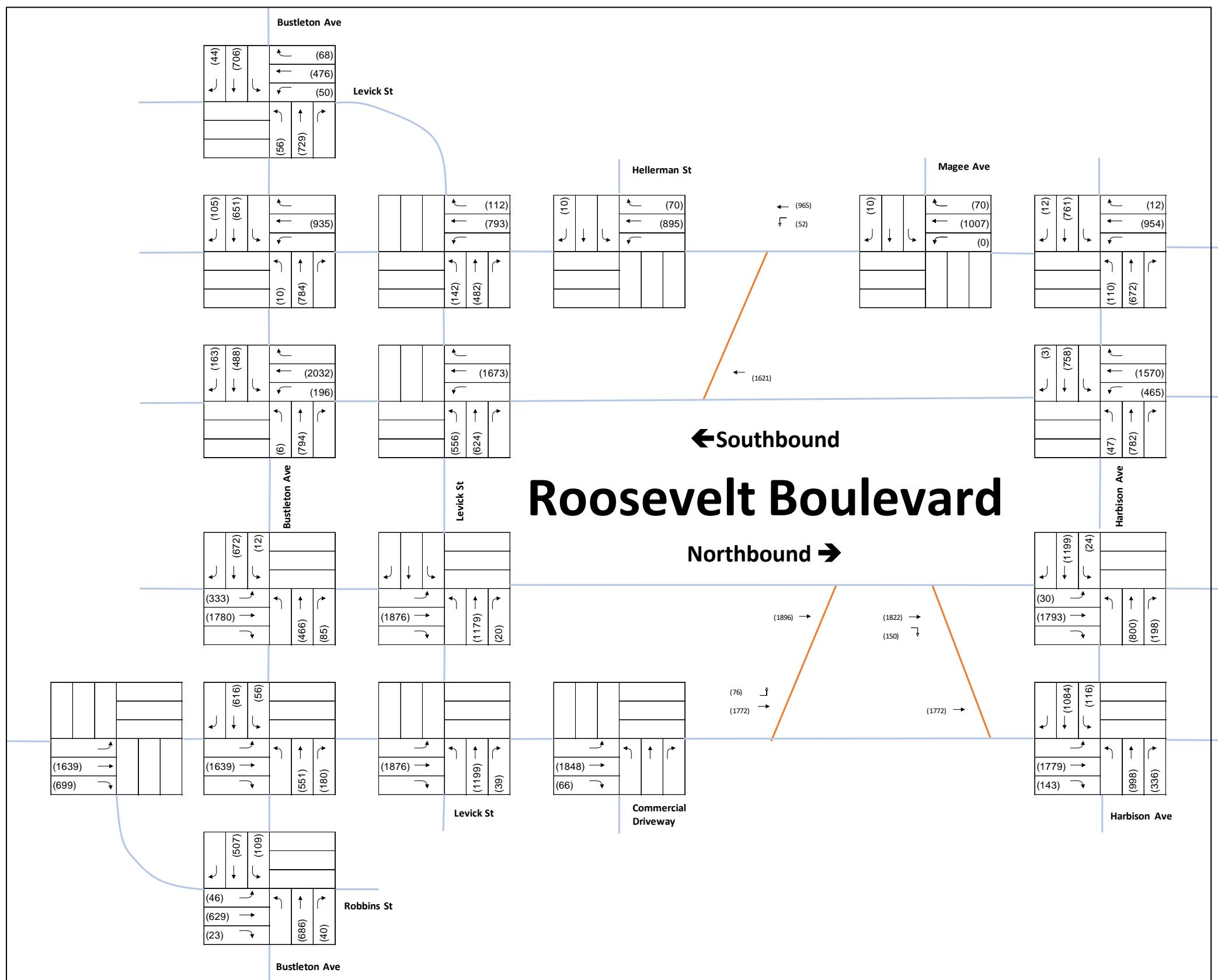
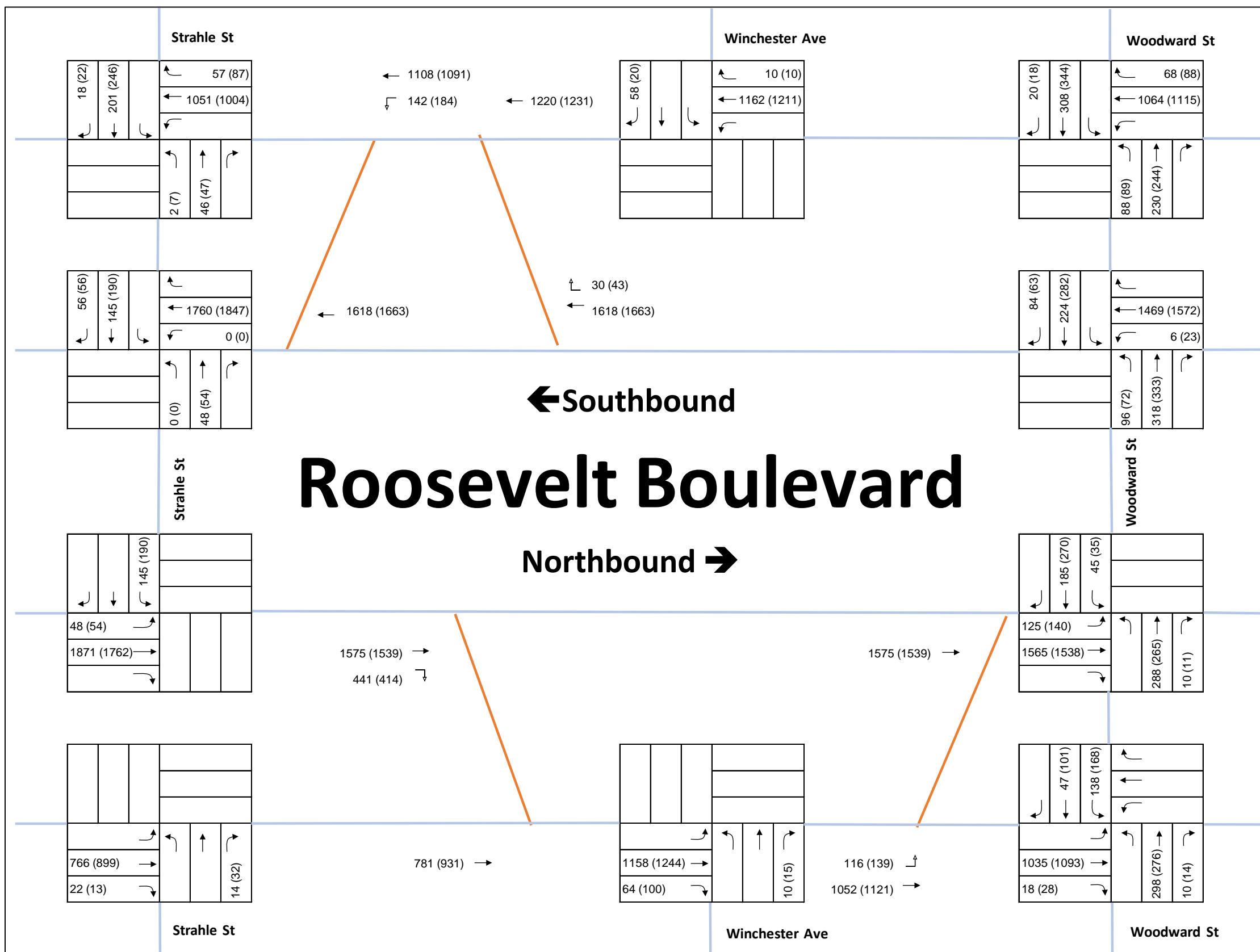
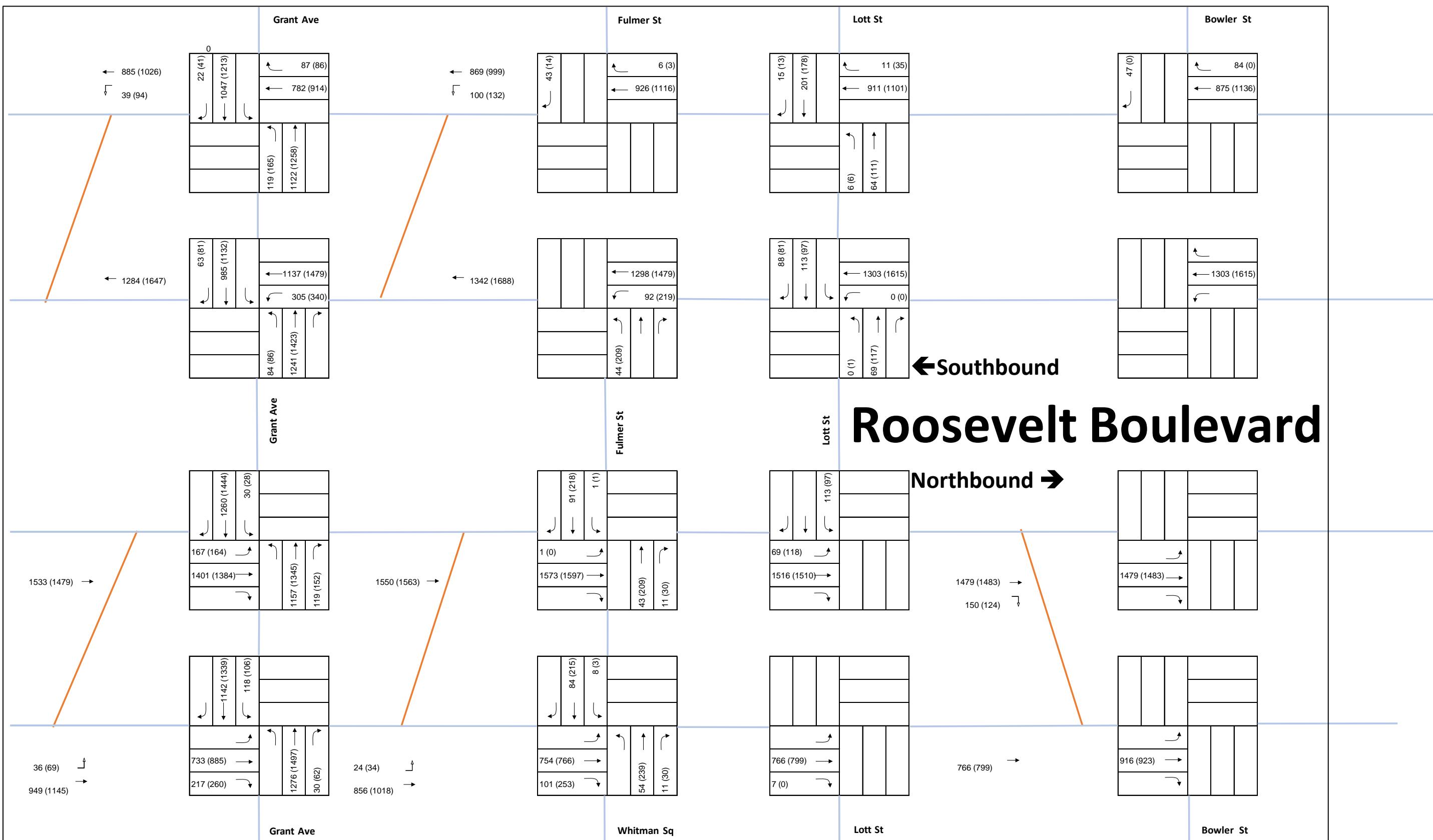


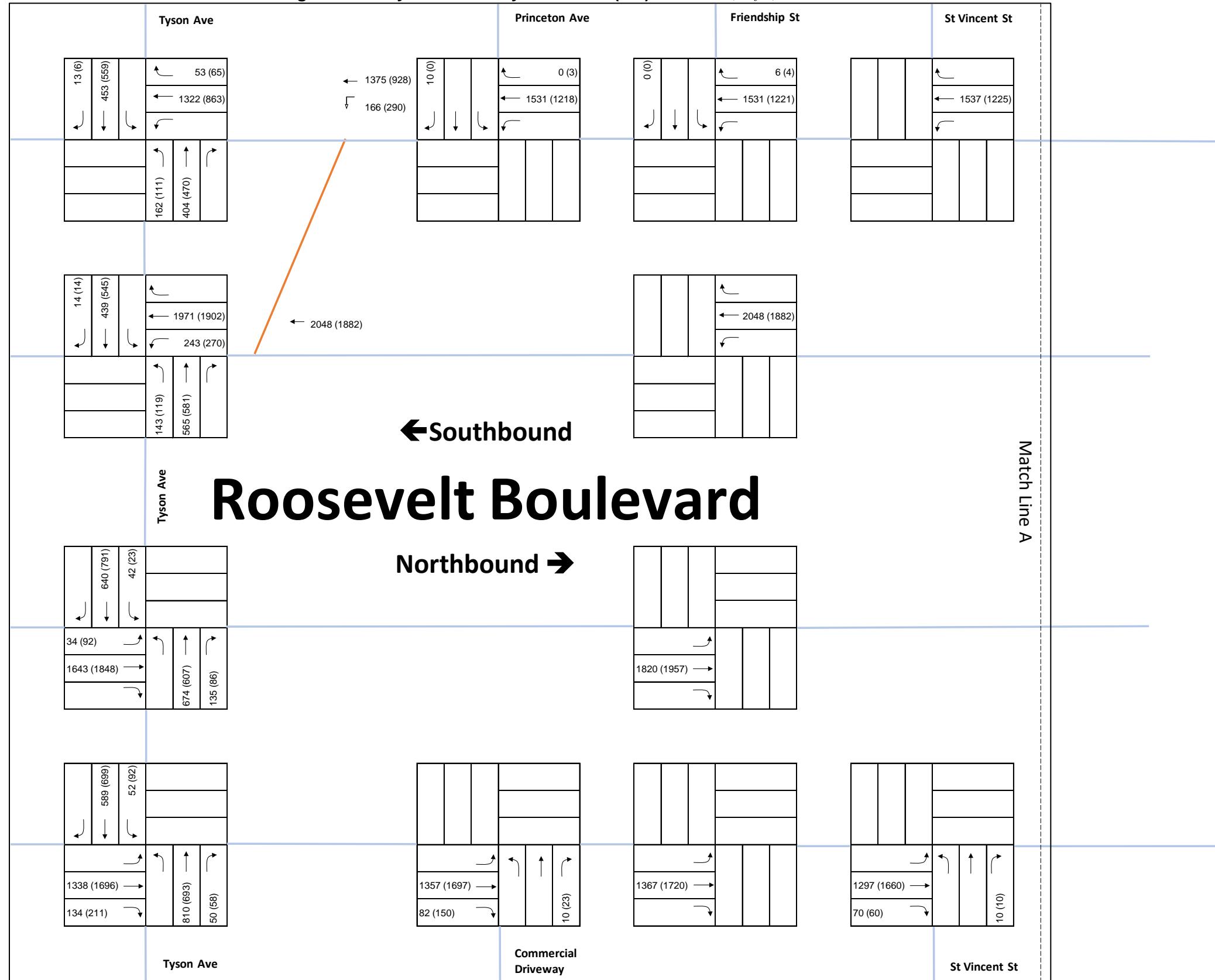
Figure A - 2: Strahle Street to Woodward Street AM (PM) Volumes



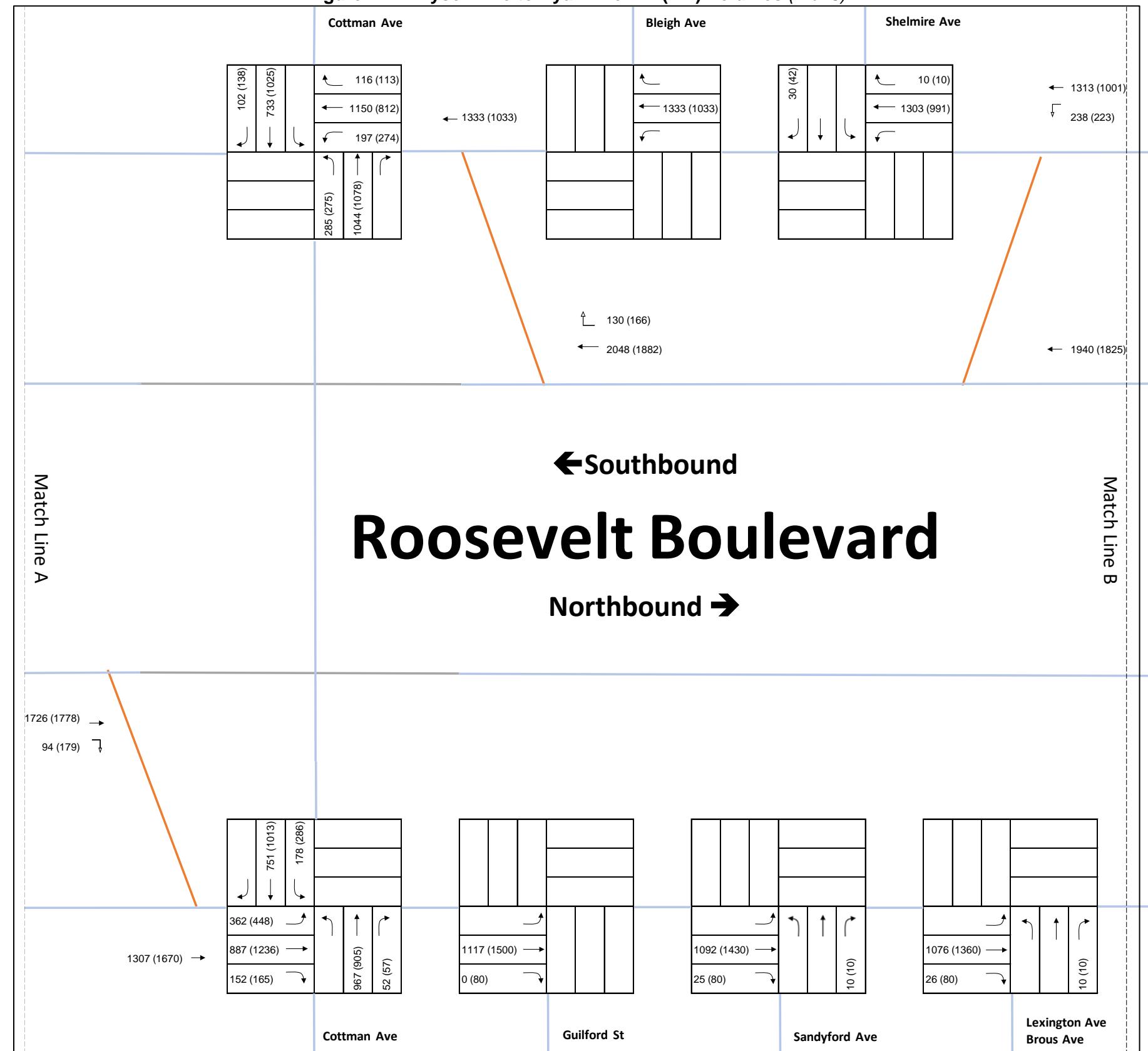
**Figure A - 3: Grant Avenue to Bowler Street AM (PM) Volumes**



**Figure A - 4: Tyson Ave to Ryan Ave AM (PM) Volumes (1 of 3)**



**Figure A - 4: Tyson Ave to Ryan Ave AM (PM) Volumes (2 of 3)**



**Figure A - 4: Tyson Ave to Ryan Ave AM (PM) Volumes (3 of 3)**

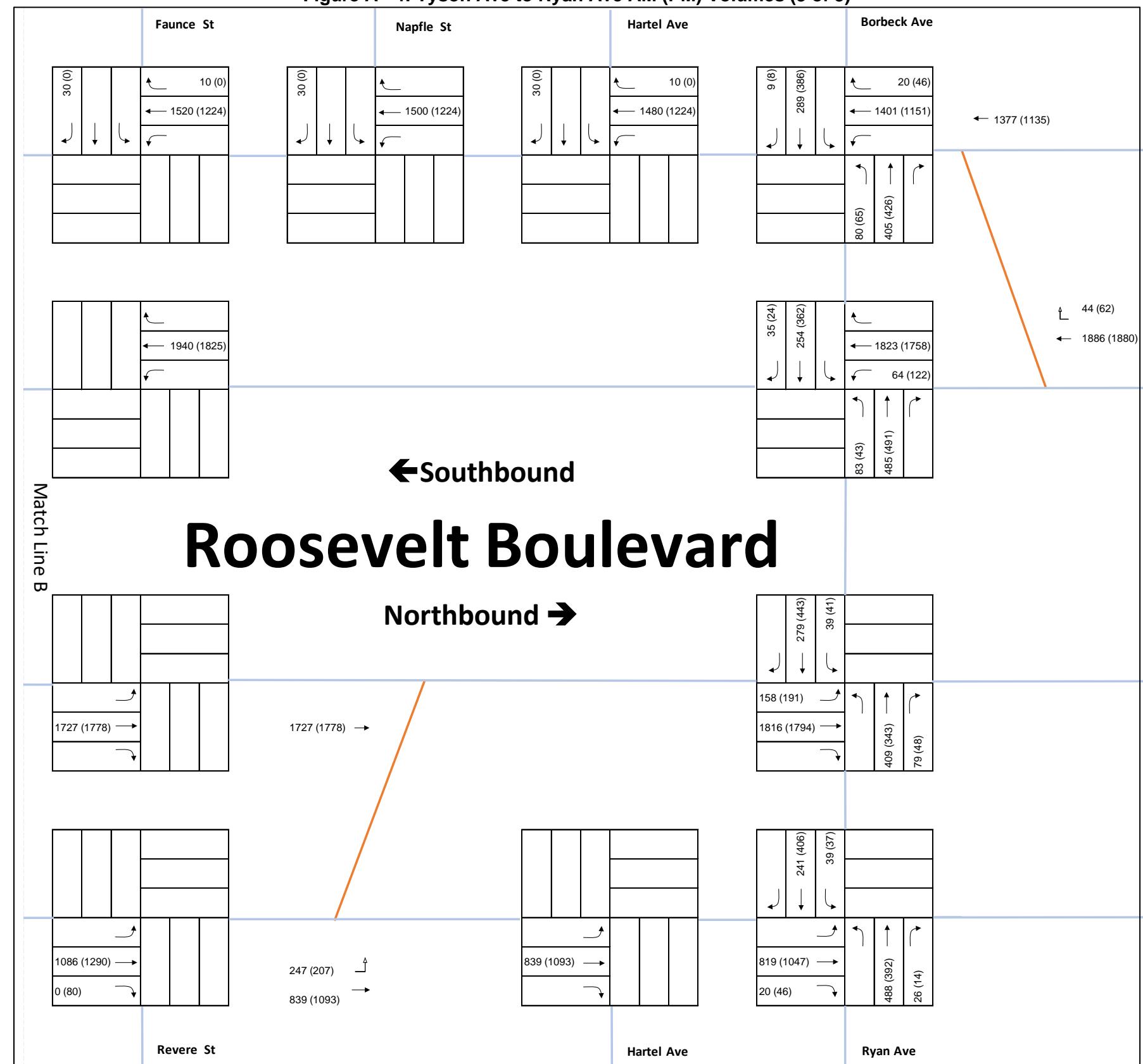
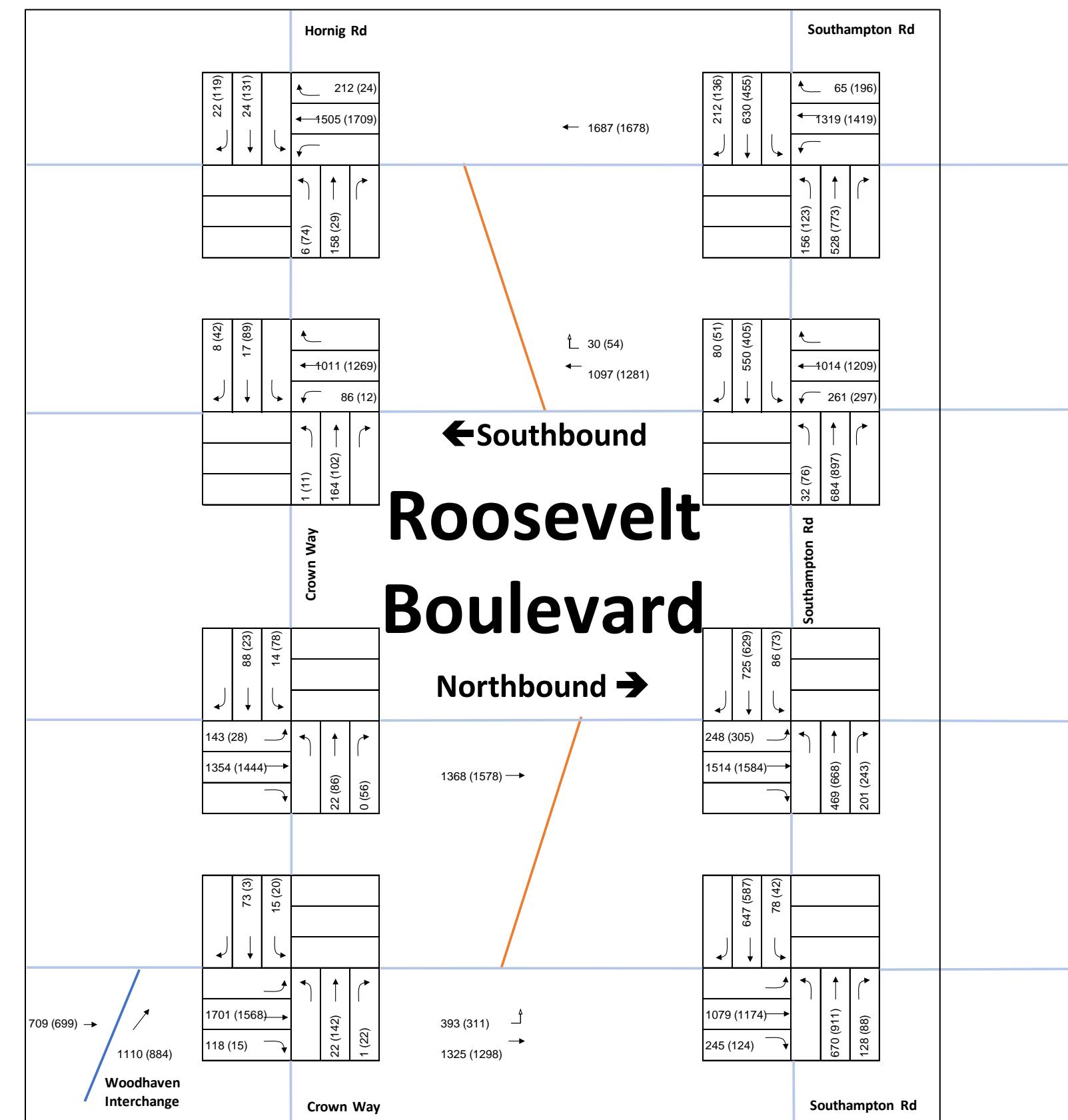


Figure A - 5: Crown Way to Southampton Road AM (PM) Volumes



## **APPENDIX B: OPERATIONAL ANALYSIS METRICS**

### Tyson Ave to Ryan Ave - 2025 No Build AM

| Intersection                         | Movement | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |     |     |  |
|--------------------------------------|----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|-----|-----|--|
| Roosevelt Blvd & Tyson Ave           | EBL1 (I) | 42                              | 45                              | 3        | 10.5                     | B                       | 560                              | 34.2                                | C                       | 22.8                                    | C                           | -                   | 57              | -                     | 197             |     |     |  |
|                                      | EBL2 (O) | 52                              | 50                              | -2       | 11.2                     | B                       |                                  |                                     |                         |   |                             | -                   | 57              | -                     | 197             |     |     |  |
|                                      | EBT      | 439                             | 438                             | -1       | 38.8                     | D                       |                                  |                                     |                         |   |                             | -                   | 57              | -                     | 341             |     |     |  |
|                                      | EBR1 (I) | 14                              | 14                              | 0        | 42.4                     | D                       |                                  |                                     |                         |   |                             | -                   | 57              | -                     | 341             |     |     |  |
|                                      | EBR2 (O) | 13                              | 14                              | 1        | 37.4                     | D                       |                                  |                                     |                         |   |                             | -                   | 57              | -                     | 341             |     |     |  |
|                                      | WBL1 (I) | 143                             | 145                             | 2        | 9.5                      | A                       |                                  | 1159                                | 47.2                    | D                                       |                             |                     | -               | 18                    | -               | 198 |     |  |
|                                      | WBL2 (O) | 162                             | 158                             | -4       | 9.1                      | A                       |                                  |                                     |                         | -                                       |                             | 18                  | -               | 198                   |                 |     |     |  |
|                                      | WBT      | 674                             | 669                             | -5       | 65.4                     | E                       |                                  |                                     |                         | -                                       |                             | 171                 | -               | 500                   |                 |     |     |  |
|                                      | WBR1 (I) | 135                             | 135                             | 0        | 43.2                     | D                       |                                  |                                     |                         | -                                       |                             | 171                 | -               | 500                   |                 |     |     |  |
|                                      | WBR2 (O) | 50                              | 52                              | 2        | 43.9                     | D                       |                                  |                                     |                         | -                                       |                             | 171                 | -               | 500                   |                 |     |     |  |
|                                      | NBIL1    | 34                              | 34                              | 0        | 19.2                     | B                       |                                  | 1674                                | 16.5                    | B                                       |                             |                     | -               | 41                    | -               | 239 |     |  |
|                                      | NBIT     | 1643                            | 1641                            | -2       | 16.5                     | B                       |                                  |                                     |                         | -                                       |                             | 41                  | -               | 239                   |                 |     |     |  |
|                                      | NBOT     | 1338                            | 1347                            | 8        | 18.6                     | B                       |                                  |                                     |                         | -                                       |                             | 460                 | 62              | -                     | 359             |     |     |  |
|                                      | NBOR     | 134                             | 130                             | -4       | 22.1                     | C                       |                                  |                                     |                         | -                                       |                             | 460                 | 62              | -                     | 359             |     |     |  |
|                                      | SBIL     | 243                             | 243                             | 0        | 58.2                     | E                       |                                  | 2214                                | 18.2                    | B                                       |                             |                     | -               | 790                   | 87              | -   | 305 |  |
|                                      | SBIT     | 1971                            | 1971                            | 0        | 13.3                     | B                       |                                  |                                     |                         | -                                       |                             | 790                 | 87              | -                     | 305             |     |     |  |
|                                      | SBOT     | 1322                            | 1324                            | 2        | 16.8                     | B                       |                                  |                                     |                         | -                                       |                             | 56                  | -               | 361                   |                 |     |     |  |
|                                      | SBOR     | 53                              | 55                              | 2        | 17.2                     | B                       |                                  |                                     |                         | -                                       |                             | 56                  | -               | 361                   |                 |     |     |  |
| Princeton Ave SB Crossover Out to In | SBIT     | 2048                            | 2042                            | -6       | 4.8                      | -                       | -                                |                                     |                         | -                                       |                             | -                   | 8               | -                     | 239             |     |     |  |
|                                      | SB O-I   | 166                             | 169                             | 3        | 10.4                     | -                       | -                                |                                     |                         | -                                       |                             | 290                 | 9               | 119                   | 152             |     |     |  |
| Roosevelt Blvd & Friendship St Ped   | NBIT     | 1820                            | 1820                            | 0        | 3.1                      | A                       | 1820                             | 3.1                                 | A                       | 8.4                                     | A                           | -                   | 4               | -                     | 303             |     |     |  |
|                                      | NBOT     | 1367                            | 1377                            | 9        | 3.7                      | A                       | 1390                             | 3.7                                 | A                       |   |                             | -                   | 5               | -                     | 305             |     |     |  |
|                                      | SBIT     | 2048                            | 2042                            | -6       | 19.8                     | B                       | 2042                             | 19.8                                | B                       |   |                             | -                   | 16              | -                     | 477             |     |     |  |
|                                      | SBOT     | 1531                            | 1538                            | 7        | 3.8                      | A                       | 1557                             | 3.9                                 | A                       |   |                             | -                   | 12              | -                     | 311             |     |     |  |
|                                      | SBOR     | 6                               | 6                               | 0        | 8.9                      | A                       | -                                | -                                   | -                       |   |                             | -                   | 14              | -                     | 324             |     |     |  |
| St Vincent St NB Crossover In to Out | NBOT     | 1307                            | 1321                            | 14       | 0.9                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 91              |     |     |  |
|                                      | NB I-O   | 94                              | 89                              | -4       | 0.6                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 80              | 0                     | 0               | 0   |     |  |
| Roosevelt Blvd & Cottman Ave         | EBL      | 178                             | 181                             | 2        | 19.9                     | B                       | 843                              | 21.2                                | C                       | 19.6                                    | B                           | -                   | 16              | -                     | 180             |     |     |  |
|                                      | EBT      | 554                             | 546                             | -9       | 20.7                     | C                       |                                  |                                     |                         |   |                             | -                   | 51              | -                     | 231             |     |     |  |
|                                      | EBR      | 102                             | 108                             | 6        | 26.3                     | C                       |                                  |                                     |                         |   |                             | -                   | 51              | -                     | 231             |     |     |  |
|                                      | WBL      | 285                             | 288                             | 3        | 11.4                     | B                       |                                  |                                     |                         |   |                             | -                   | 11              | -                     | 184             |     |     |  |
|                                      | WBT      | 682                             | 673                             | -9       | 25.2                     | C                       |                                  | 1025                                | 21.6                    | C                                       |                             |                     | -               | 57                    | -               | 317 |     |  |
|                                      | WBR      | 52                              | 55                              | 3        | 30.5                     | C                       |                                  |                                     |                         | -                                       |                             | 57                  | -               | 317                   |                 |     |     |  |
|                                      | NBL      | 362                             | 370                             | 8        | 23.3                     | C                       |                                  | 1418                                | 19.2                    | B                                       |                             |                     | -               | 52                    | -               | 335 |     |  |
|                                      | NBT      | 887                             | 884                             | -3       | 17.7                     | B                       |                                  |                                     |                         | -                                       |                             | 52                  | -               | 335                   |                 |     |     |  |
|                                      | NBR      | 152                             | 151                             | -1       | 17.5                     | B                       |                                  |                                     |                         | -                                       |                             | 52                  | -               | 335                   |                 |     |     |  |
|                                      | SBL      | 197                             | 198                             | 1        | 16.1                     | B                       |                                  |                                     |                         | -                                       |                             | 59                  | -               | 322                   |                 |     |     |  |
| Blegh Ave SB Crossover In to Out     | SBT      | 1150                            | 1153                            | 3        | 17.3                     | B                       | 1482                             | 17.7                                | B                       | 19.6                                    | B                           | -                   | 59              | -                     | 322             |     |     |  |
|                                      | SBR      | 116                             | 117                             | 1        | 24.2                     | C                       |                                  |                                     |                         |   |                             | -                   | 59              | -                     | 322             |     |     |  |
| Blegh Ave SB Crossover In to Out     | SBOT     | 1333                            | 1340                            | 7        | 4.8                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 0               |     |     |  |
|                                      | SB I-O   | 130                             | 130                             | 0        | 8.5                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 265             | 0                     | 0               | 0   |     |  |
| Faunce St SB Crossover Out to In     | SBIT     | 1940                            | 1938                            | -2       | 2.6                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 44              |     |     |  |
|                                      | SB O-I   | 238                             | 237                             | 0        | 16.4                     | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 165             | 23                    | 245             | 294 |     |  |

### Tyson Ave to Ryan Ave - 2025 No Build AM

| Intersection                            | Movement  | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |     |  |  |
|---|-----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|-----|--|--|
| Roosevelt Blvd & Faunce St Ped          | EBR       | 30                              | 30                              | 0        | 6.6                      | A                       | 30                               | 6.6                                 | A                       | 13.8                                    | B                           | -                   | 1               | -                     | 42              |     |  |  |
|   | NBIT      | 1727                            | 1731                            | 4        | 17.9                     | B                       | 2833                             | 16.7                                | B                       |   |                             | -                   | 37              | -                     | 355             |     |  |  |
|   | NBOT      | 1086                            | 1089                            | 3        | 14.7                     | B                       |                                  |                                     |                         |   |                             | -                   | 28              | -                     | 328             |     |  |  |
|   | SBIT      | 1940                            | 1938                            | -3       | 11.7                     | B                       |                                  |                                     |                         |   |                             | -                   | 15              | -                     | 236             |     |  |  |
|   | SBOT      | 1520                            | 1527                            | 7        | 11.2                     | B                       | 3487                             | 11.5                                | B                       |   |                             | -                   | 21              | -                     | 231             |     |  |  |
|   | SBR       | 10                              | 9                               | -1       | 9.3                      | A                       |                                  |                                     |                         |   |                             | -                   | 31              | -                     | 263             |     |  |  |
|   | NBIT      | 1727                            | 1730                            | 3        | 0.6                      | -                       |                                  | -                                   | -                       |   |                             | -                   | 0               | -                     | 0               |     |  |  |
| Revere St NB Crossover Out to In        | NB O-I    | 247                             | 250                             | 2        | 12.8                     | -                       |                                  | -                                   | -                       | -                                       | -                           | 140                 | 23              | 290                   | 310             |     |  |  |
| Roosevelt Blvd & Borbeck Ave - Ryan Ave | EBL1 (I)  | 39                              | 37                              | -1       | 46.9                     | D                       | 299                              | 41.4                                | D                       | 42.8                                    | D                           | -                   | 59              | -                     | 342             |     |  |  |
|   | EBL2 (O)  | 39                              | 43                              | 4        | 45.8                     | D                       |                                  |                                     |                         |   |                             | -                   | 59              | -                     | 342             |     |  |  |
|   | EBT       | 177                             | 173                             | -4       | 39.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 59              | -                     | 342             |     |  |  |
|   | EBR1 (I)  | 35                              | 36                              | 1        | 39.4                     | D                       |                                  |                                     |                         |   |                             | -                   | 59              | -                     | 342             |     |  |  |
|   | EBR2 (O)  | 9                               | 9                               | 1        | 35.1                     | D                       |                                  |                                     |                         |   |                             | -                   | 59              | -                     | 342             |     |  |  |
|   | WBL1 (I)  | 83                              | 86                              | 3        | 48.4                     | D                       | 516                              | 45.0                                | D                       |   |                             |                     | -               | 104                   | -               | 385 |  |  |
|   | WBL2 (O)  | 80                              | 82                              | 2        | 46.7                     | D                       |                                  |                                     |                         |   |                             |                     | -               | 104                   | -               | 385 |  |  |
|   | WBT       | 246                             | 241                             | -5       | 46.1                     | D                       |                                  |                                     |                         |   |                             |                     | -               | 104                   | -               | 385 |  |  |
|   | WBR1 (I)  | 79                              | 82                              | 2        | 39.1                     | D                       |                                  |                                     |                         |   |                             |                     | -               | 104                   | -               | 385 |  |  |
|   | WBR2 (O)  | 26                              | 26                              | -1       | 37.8                     | D                       |                                  |                                     |                         |   |                             |                     | -               | 107                   | -               | 390 |  |  |
|   | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | 1977                             | 55.8                                | E                       |   |                             |                     | 340             | 137                   | -               | 455 |  |  |
|   | NBIU2 (O) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     | 340             | 137                   | -               | 455 |  |  |
|   | NBIL      | 158                             | 156                             | -3       | 146.9                    | F                       |                                  |                                     |                         |   |                             |                     | 340             | 137                   | -               | 455 |  |  |
|   | NBIT      | 1816                            | 1822                            | 6        | 48.1                     | D                       |                                  |                                     |                         |   |                             |                     | -               | 193                   | -               | 676 |  |  |
|   | NBOT      | 819                             | 819                             | 0        | 46.7                     | D                       |                                  |                                     |                         |   |                             |                     | -               | 111                   | -               | 450 |  |  |
|   | NBOR      | 20                              | 21                              | 1        | 45.3                     | D                       |                                  |                                     |                         |   |                             |                     | -               | 111                   | -               | 450 |  |  |
|   | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     | 315             | 18                    | -               | 117 |  |  |
| Ryan Ave SB Crossover In to Out         | SIU2 (O)  | 0                               | 0                               | 0        | 0.0                      | A                       | 1881                             | 35.8                                | D                       |   |                             |                     | 315             | 18                    | -               | 117 |  |  |
|   | SBIL      | 64                              | 63                              | -1       | 60.5                     | E                       |                                  |                                     |                         |   |                             |                     | 315             | 18                    | -               | 117 |  |  |
|   | SBIT      | 1823                            | 1818                            | -4       | 35.0                     | C                       |                                  |                                     |                         |   |                             |                     | -               | 115                   | -               | 469 |  |  |
|   | SBOT      | 1401                            | 1406                            | 5        | 31.3                     | C                       |                                  |                                     |                         |   |                             |                     | -               | 133                   | -               | 389 |  |  |
|   | SBOR      | 20                              | 21                              | 1        | 30.0                     | C                       |                                  |                                     |                         |   |                             |                     | -               | 133                   | -               | 389 |  |  |
|   | SBOT      | 1377                            | 1380                            | 4        | 4.8                      | -                       |                                  | -                                   | -                       | -                                       | -                           | -                   | -               | 3                     | -               | 161 |  |  |
|   | SB I-O    | 44                              | 46                              | 2        | 9.6                      | -                       |                                  | -                                   | -                       | -                                       | -                           | -                   | 200             | 1                     | 54              | 63  |  |  |

### Tyson Ave to Ryan Ave - 2025 AM Mitigation

| Intersection                         | Movement | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |  |  |
|--------------------------------------|----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|--|--|
| Roosevelt Blvd & Tyson Ave           | EBL1 (I) | 42                              | 45                              | 3        | 12.0                     | B                       | 562                              | 34.3                                | C                       | 23.3                                    | C                           | -                   | 47              | -                     | 194             |  |  |
|                                      | EBL2 (O) | 52                              | 50                              | -2       | 12.4                     | B                       |                                  |                                     |                         |   |                             | -                   | 47              | -                     | 194             |  |  |
|                                      | EBT      | 439                             | 439                             | 0        | 38.8                     | D                       |                                  |                                     |                         |   |                             | -                   | 56              | -                     | 341             |  |  |
|                                      | EBR1 (I) | 14                              | 14                              | 0        | 40.5                     | D                       |                                  |                                     |                         |   |                             | -                   | 56              | -                     | 341             |  |  |
|                                      | EBR2 (O) | 13                              | 14                              | 1        | 36.6                     | D                       |                                  |                                     |                         |   |                             | -                   | 56              | -                     | 341             |  |  |
|                                      | WBL1 (I) | 143                             | 144                             | 1        | 8.9                      | A                       | 1156                             | 46.8                                | D                       |   |                             | -                   | 17              | -                     | 194             |  |  |
|                                      | WBL2 (O) | 162                             | 157                             | -4       | 9.3                      | A                       |                                  |                                     |                         |   |                             | -                   | 17              | -                     | 194             |  |  |
|                                      | WBT      | 674                             | 668                             | -7       | 64.6                     | E                       |                                  |                                     |                         |   |                             | -                   | 171             | -                     | 503             |  |  |
|                                      | WBR1 (I) | 135                             | 135                             | 0        | 43.8                     | D                       |                                  |                                     |                         |   |                             | -                   | 171             | -                     | 503             |  |  |
|                                      | WBR2 (O) | 50                              | 52                              | 2        | 43.4                     | D                       |                                  |                                     |                         |   |                             | -                   | 171             | -                     | 503             |  |  |
|                                      | NBIL1    | 34                              | 34                              | 0        | 18.6                     | B                       | 1675                             | 16.5                                | B                       |   |                             | -                   | 41              | -                     | 240             |  |  |
|                                      | NBIT     | 1643                            | 1641                            | -2       | 16.5                     | B                       |                                  |                                     |                         |   |                             | -                   | 41              | -                     | 240             |  |  |
|                                      | NBOT     | 1338                            | 1346                            | 8        | 18.6                     | B                       | 1489                             | 18.9                                | B                       |   |                             | -                   | 460             | 62                    | 358             |  |  |
|                                      | NBOR     | 134                             | 130                             | -4       | 22.1                     | C                       |                                  |                                     |                         |   |                             | -                   | 460             | 62                    | 358             |  |  |
|                                      | SBIL     | 243                             | 240                             | -3       | 54.5                     | D                       | 2213                             | 20.5                                | C                       |   |                             | -                   | 790             | 89                    | 448             |  |  |
|                                      | SBIT     | 1971                            | 1973                            | 2        | 16.3                     | B                       |                                  |                                     |                         |   |                             | -                   | 790             | 89                    | 448             |  |  |
|                                      | SBOT     | 1322                            | 1326                            | 3        | 16.8                     | B                       | 1394                             | 16.9                                | B                       |   |                             | -                   | 56              | -                     | 352             |  |  |
|                                      | SBOR     | 53                              | 55                              | 2        | 17.5                     | B                       |                                  |                                     |                         |   |                             | -                   | 56              | -                     | 352             |  |  |
| Princeton Ave SB Crossover Out to In | SBIT     | 2048                            | 2044                            | -4       | 1.9                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 1               | -                     | 122             |  |  |
|                                      | SB O-I   | 166                             | 169                             | 3        | 6.3                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 290                 | 6               | 112                   | 132             |  |  |
| Roosevelt Blvd & Friendship St Ped   | NBIT     | 1820                            | 1821                            | 1        | 3.1                      | A                       | 1821                             | 3.1                                 | A                       | 8.4                                     | A                           | -                   | 4               | -                     | 299             |  |  |
|                                      | NBOT     | 1367                            | 1377                            | 9        | 3.6                      | A                       | 1390                             | 3.6                                 | A                       |   |                             | -                   | 5               | -                     | 300             |  |  |
|                                      | SBIT     | 2048                            | 2042                            | -6       | 19.6                     | B                       | 2042                             | 19.6                                | B                       |   |                             | -                   | 16              | -                     | 478             |  |  |
|                                      | SBOT     | 1531                            | 1539                            | 8        | 3.8                      | A                       | 1559                             | 3.8                                 | A                       |   |                             | -                   | 12              | -                     | 318             |  |  |
|                                      | SBOR     | 6                               | 6                               | 0        | 8.1                      | A                       |                                  |                                     |                         |   |                             | -                   | 14              | -                     | 330             |  |  |
| St Vincent St NB Crossover In to Out | NBOT     | 1307                            | 1321                            | 14       | 0.9                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 91              |  |  |
|                                      | NB I-O   | 94                              | 89                              | -4       | 0.6                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 80                  | 0               | 0                     | 0               |  |  |
| Roosevelt Blvd & Cottman Ave         | EBL      | 178                             | 181                             | 2        | 19.6                     | B                       | 843                              | 21.2                                | C                       | 19.7                                    | B                           | -                   | 16              | -                     | 177             |  |  |
|                                      | EBT      | 554                             | 546                             | -9       | 20.7                     | C                       |                                  |                                     |                         |   |                             | -                   | 51              | -                     | 216             |  |  |
|                                      | EBR      | 102                             | 108                             | 6        | 26.3                     | C                       |                                  |                                     |                         |   |                             | -                   | 51              | -                     | 216             |  |  |
|                                      | WBL      | 285                             | 288                             | 3        | 10.7                     | B                       | 1024                             | 22.1                                | C                       |   |                             | -                   | 10              | -                     | 188             |  |  |
|                                      | WBT      | 682                             | 673                             | -9       | 26.2                     | C                       |                                  |                                     |                         |   |                             | -                   | 61              | -                     | 371             |  |  |
|                                      | WBR      | 52                              | 55                              | 3        | 31.3                     | C                       | 1418                             | 19.2                                | B                       |   |                             | -                   | 61              | -                     | 371             |  |  |
|                                      | NBL      | 362                             | 370                             | 8        | 23.3                     | C                       |                                  |                                     |                         |   |                             | -                   | 52              | -                     | 334             |  |  |
|                                      | NBT      | 887                             | 884                             | -3       | 17.7                     | B                       |                                  |                                     |                         |   |                             | -                   | 52              | -                     | 334             |  |  |
|                                      | NBR      | 152                             | 151                             | -1       | 17.4                     | B                       | 1482                             | 17.6                                | B                       |   |                             | -                   | 52              | -                     | 334             |  |  |
|                                      | SBL      | 197                             | 198                             | 1        | 16.2                     | B                       |                                  |                                     |                         |   |                             | -                   | 59              | -                     | 340             |  |  |
|                                      | SBT      | 1150                            | 1153                            | 3        | 17.2                     | B                       |                                  |                                     |                         |   |                             | -                   | 59              | -                     | 340             |  |  |
|                                      | SBR      | 116                             | 117                             | 2        | 23.7                     | C                       |                                  |                                     |                         |   |                             | -                   | 59              | -                     | 340             |  |  |
| Blegh Ave SB Crossover In to Out     | SBOT     | 1333                            | 1340                            | 7        | 4.7                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 0               |  |  |
|                                      | SB I-O   | 130                             | 130                             | 0        | 8.5                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 265                 | 0               | 0                     | 0               |  |  |
| Faunce St SB Crossover Out to In     | SBIT     | 1940                            | 1938                            | -2       | 2.7                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 41              |  |  |
|                                      | SB O-I   | 238                             | 237                             | 0        | 15.7                     | -                       | -                                | -                                   | -                       | -                                       | -                           | 200                 | 20              | 229                   | 254             |  |  |
| Roosevelt Blvd & Faunce St Ped       | EBR      | 30                              | 30                              | 0        | 6.6                      | A                       | 30                               | 6.6                                 | A                       | 10.8                                    | B                           | -                   | 1               | -                     | 40              |  |  |
|                                      | NBIT     | 1964                            | 1980                            | 16       | 8.5                      | A                       | 2832                             | 9.7                                 | A                       |   |                             | -                   | 34              | -                     | 211             |  |  |
|                                      | NBOT     | 848                             | 840                             | -9       | 12.4                     | B                       |                                  |                                     |                         |   |                             | -                   | 21              | -                     | 202             |  |  |
|                                      | SBIT     | 1940                            | 1938                            | -3       | 11.7                     | B                       | 3487                             | 11.7                                | B                       |   |                             | -                   | 15              | -                     | 255             |  |  |
|                                      | SBOT     | 1520                            | 1527                            | 7        | 11.6                     | B                       |                                  |                                     |                         |   |                             | -                   | 21              | -                     | 261             |  |  |
|                                      | SBR      | 10                              | 9                               | -1       | 9.3                      | A                       |                                  |                                     |                         |   |                             | -                   | 32              | -                     | 293             |  |  |
| Revere St NB Crossover Out to In     | NBIT     | 1727                            | 1732                            | 5        | 9.5                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 5               | -                     | 173             |  |  |
|                                      | NB O-I   | 247                             | 250                             | 2        | 17.8                     | -                       | -                                | -                                   | -                       | -                                       | -                           | 210                 | 20              | 206                   | 257             |  |  |

### Tyson Ave to Ryan Ave - 2025 AM Mitigation

| Intersection                            | Movement  | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |  |  |
|---|-----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|--|--|
| Roosevelt Blvd & Borbeck Ave - Ryan Ave | EBL1 (I)  | 39                              | 37                              | -1       | 46.4                     | D                       | 299                              | 41.4                                | D                       | 44.7                                    | D                           | -                   | 58              | -                     | 342             |  |  |
|   | EBL2 (O)  | 39                              | 43                              | 4        | 45.8                     | D                       |                                  |                                     |                         |   |                             | -                   | 58              | -                     | 342             |  |  |
|   | EBT       | 177                             | 173                             | -4       | 39.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 58              | -                     | 342             |  |  |
|   | EBR1 (I)  | 35                              | 36                              | 1        | 39.4                     | D                       |                                  |                                     |                         |   |                             | -                   | 58              | -                     | 342             |  |  |
|   | EBR2 (O)  | 9                               | 9                               | 1        | 35.1                     | D                       |                                  |                                     |                         |   |                             | -                   | 58              | -                     | 342             |  |  |
|   | WBL1 (I)  | 83                              | 86                              | 3        | 49.4                     | D                       | 516                              | 45.8                                | D                       |   |                             | -                   | 106             | -                     | 386             |  |  |
|   | WBL2 (O)  | 80                              | 82                              | 2        | 47.6                     | D                       |                                  |                                     |                         |   |                             | -                   | 106             | -                     | 386             |  |  |
|   | WBT       | 246                             | 241                             | -5       | 46.8                     | D                       |                                  |                                     |                         |   |                             | -                   | 106             | -                     | 386             |  |  |
|   | WBR1 (I)  | 79                              | 82                              | 2        | 39.8                     | D                       |                                  |                                     |                         |   |                             | -                   | 106             | -                     | 386             |  |  |
|   | WBR2 (O)  | 26                              | 26                              | -1       | 38.3                     | D                       |                                  |                                     |                         |   |                             | -                   | 109             | -                     | 390             |  |  |
|   | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | 1978                             | 60.7                                | E                       |   |                             | 340                 | 140             | -                     | 437             |  |  |
|   | NBIU2 (O) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 340                 | 140             | -                     | 437             |  |  |
|   | NBIL      | 158                             | 156                             | -2       | 150.5                    | F                       |                                  |                                     |                         |   |                             | 340                 | 140             | -                     | 437             |  |  |
|   | NBIT      | 1816                            | 1822                            | 7        | 53.0                     | D                       |                                  |                                     |                         |   |                             | -                   | 217             | -                     | 668             |  |  |
|   | NBOT      | 819                             | 819                             | 0        | 50.3                     | D                       | 853                              | 50.3                                | D                       |   |                             | -                   | 121             | -                     | 446             |  |  |
|   | NBOR      | 20                              | 21                              | 1        | 47.1                     | D                       |                                  |                                     |                         |   |                             | -                   | 121             | -                     | 446             |  |  |
|   | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | 1881                             | 35.8                                | D                       |   |                             | 315                 | 18              | -                     | 117             |  |  |
|   | SIU2 (O)  | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 315                 | 18              | -                     | 117             |  |  |
|   | SBIL      | 64                              | 63                              | -1       | 60.5                     | E                       |                                  |                                     |                         |   |                             | 315                 | 18              | -                     | 117             |  |  |
|   | SBIT      | 1823                            | 1818                            | -4       | 35.0                     | C                       |                                  |                                     |                         |   |                             | -                   | 115             | -                     | 469             |  |  |
|   | SBOT      | 1401                            | 1406                            | 5        | 31.3                     | C                       | 1439                             | 31.3                                | C                       |   |                             | -                   | 133             | -                     | 389             |  |  |
|   | SBOR      | 20                              | 21                              | 1        | 30.0                     | C                       |                                  |                                     |                         |   |                             | -                   | 133             | -                     | 389             |  |  |
| Ryan Ave SB Crossover In to Out         | SBOT      | 1377                            | 1380                            | 4        | 4.8                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 3               | -                     | 161             |  |  |
|   | SB I-O    | 44                              | 46                              | 2        | 9.6                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 200                 | 1               | 54                    | 63              |  |  |

### Strahle St to Woodward Ave - 2025 No Build AM

| Intersection                            | Movement                       | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |     |  |  |
|---|--------------------------------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|-----|--|--|
| Roosevelt Blvd & Holmes Ave - Solly Ave | EBL                            | -                               | 0                               | -        | 0.0                      | A                       | 0                                | -                                   | -                       | 23.8                                    | C                           | -                   | 0               | -                     | 0               |     |  |  |
|   | EBT                            | -                               | 0                               | -        | 0.0                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 0               | -                     | 0               |     |  |  |
|   | EBR                            | -                               | 0                               | -        | 0.0                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 0               | -                     | 0               |     |  |  |
|   | WBL                            | -                               | 0                               | -        | 0.0                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 0               | -                     | 0               |     |  |  |
|   | WBT                            | -                               | 0                               | -        | 0.0                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 0               | -                     | 0               |     |  |  |
|   | WBR                            | -                               | 0                               | -        | 0.0                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 0               | -                     | 0               |     |  |  |
|   | NBL                            | -                               | 0                               | -        | 0.0                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 42              | -                     | 259             |     |  |  |
|   | NBT                            | -                               | 793                             | -        | 20.0                     | B                       |                                  | 803                                 | 20.0                    |   |                             | -                   | 42              | -                     | 259             |     |  |  |
|   | NBR                            | -                               | 0                               | -        | 0.0                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 42              | -                     | 259             |     |  |  |
|   | SBL                            | -                               | 0                               | -        | 0.0                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 67              | -                     | 512             |     |  |  |
|   | SBT                            | -                               | 1069                            | -        | 26.7                     | C                       |                                  | 1079                                | 26.7                    |   |                             | -                   | 67              | -                     | 512             |     |  |  |
|   | SBR                            | -                               | 0                               | -        | 0.0                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 67              | -                     | 512             |     |  |  |
| Roosevelt Blvd & Strahle St             | EBL1 (I)                       | 145                             | 144                             | -1       | 44.9                     | D                       | 219                              | 44.3                                | D                       | 10.2                                    | B                           | -                   | 39              | -                     | 234             |     |  |  |
|   | EBR1 (I)                       | 56                              | 57                              | 1        | 42.7                     | D                       |                                  | -                                   | -                       |   |                             | -                   | 39              | -                     | 234             |     |  |  |
|   | EBR2 (O)                       | 18                              | 18                              | 0        | 44.9                     | D                       |                                  | -                                   | -                       |   |                             | -                   | 39              | -                     | 234             |     |  |  |
|   | WBR                            | 14                              | 14                              | 0        | 1.0                      | A                       |                                  | 14                                  | 1.0                     |   |                             | -                   | 0               | -                     | 32              |     |  |  |
|   | NBIU2 (O)                      | 2                               | 1                               | -1       | 38.4                     | D                       |                                  | -                                   | -                       |   |                             | -                   | 31              | -                     | 232             |     |  |  |
|   | NBIL                           | 48                              | 45                              | -3       | 55.7                     | E                       |                                  | 1920                                | 10.6                    |   |                             | -                   | 31              | -                     | 232             |     |  |  |
|   | NBIT                           | 1871                            | 1874                            | 2        | 9.5                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 31              | -                     | 232             |     |  |  |
|   | NBOT                           | 766                             | 772                             | 6        | 7.2                      | A                       |                                  | 804                                 | 7.2                     |   |                             | -                   | 2               | -                     | 106             |     |  |  |
|   | NBOR                           | 22                              | 22                              | 0        | 7.0                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 8               | -                     | 190             |     |  |  |
|   | SBIT                           | 1760                            | 1753                            | -7       | 6.7                      | A                       |                                  | 1753                                | 6.7                     |   |                             | -                   | 23              | -                     | 128             |     |  |  |
|   | SBOT                           | 1051                            | 1050                            | -1       | 10.6                     | B                       |                                  | -                                   | -                       |   |                             | -                   | 23              | -                     | 161             |     |  |  |
|   | SBOR                           | 57                              | 60                              | 2        | 14.2                     | B                       |                                  | 1120                                | 10.8                    |   |                             | -                   | 22              | -                     | 162             |     |  |  |
|   | Strahle SB Crossover Out to In | SBIT                            | 1618                            | 1612     | -7                       | 5.7                     | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 2               |     |  |  |
|   | SB O-I                         | 142                             | 141                             | -1       | 8.5                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 120                 | 3               | 104                   | 129             |     |  |  |
| Winchester NB Crossover In to Out       | NBOT                           | 781                             | 787                             | 6        | 4.3                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 4               |     |  |  |
|   | NB I-O                         | 441                             | 442                             | 1        | 7.0                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 145                 | 5               | 141                   | 196             |     |  |  |
|   | SBOT                           | 1220                            | 1221                            | 1        | 3.0                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 0               |     |  |  |
|   | SB I-O                         | 30                              | 31                              | 1        | 9.8                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 150                 | 1               | 51                    | 61              |     |  |  |
| Woodward NB Crossover Out to In         | NBIT                           | 1575                            | 1576                            | 1        | 4.6                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 4               |     |  |  |
|   | NB O-I                         | 116                             | 139                             | 24       | 4.3                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 130                 | 2               | 80                    | 101             |     |  |  |
| Roosevelt Blvd & Woodward St            | EBL1 (I)                       | 45                              | 41                              | -4       | 150.0                    | F                       | 320                              | 146.9                               | F                       | 38.0                                    | D                           | -                   | 298             | -                     | 739             |     |  |  |
|   | EBL2 (O)                       | 138                             | 138                             | 0        | 151.1                    | F                       |                                  |                                     |                         |   |                             | -                   | 298             | -                     | 739             |     |  |  |
|   | EBT                            | 42                              | 40                              | -1       | 140.0                    | F                       |                                  |                                     |                         |   |                             | -                   | 298             | -                     | 739             |     |  |  |
|   | EBR1 (I)                       | 84                              | 83                              | 0        | 144.5                    | F                       |                                  |                                     |                         |   |                             | -                   | 298             | -                     | 739             |     |  |  |
|   | EBR2 (O)                       | 20                              | 18                              | -2       | 134.7                    | F                       |                                  |                                     |                         |   |                             | -                   | 297             | -                     | 737             |     |  |  |
|   | WBL1 (I)                       | 96                              | 94                              | -1       | 96.8                     | F                       |                                  |                                     |                         |   |                             | -                   | 230             | 116                   | 443             |     |  |  |
|   | WBL2 (O)                       | 88                              | 87                              | -2       | 93.3                     | F                       |                                  |                                     |                         |   |                             | -                   | 230             | 116                   | 443             |     |  |  |
|   | WBT                            | 105                             | 104                             | -1       | 58.2                     | E                       | 304                              | 80.4                                | F                       |   |                             |                     | -               | 230                   | 116             | 443 |  |  |
|   | WBR1 (I)                       | 10                              | 10                              | 0        | 63.9                     | E                       |                                  |                                     |                         |   |                             |                     | -               | 230                   | 116             | 443 |  |  |
|   | WBR2 (O)                       | 10                              | 10                              | 0        | 60.3                     | E                       |                                  |                                     |                         |   |                             |                     | -               | 230                   | 116             | 443 |  |  |
|   | NBIU1 (I)                      | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     | -               | 45                    | -               | 201 |  |  |
|   | NBIU2 (O)                      | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     | -               | 45                    | -               | 201 |  |  |
|   | NBIT                           | 125                             | 127                             | 1        | 69.4                     | E                       |                                  |                                     |                         |   |                             |                     | -               | 75                    | -               | 420 |  |  |
|   | NBOT                           | 1035                            | 1020                            | -15      | 34.6                     | C                       |                                  |                                     |                         |   |                             |                     | -               | 95                    | -               | 451 |  |  |
|   | NBOR                           | 18                              | 18                              | 0        | 31.7                     | C                       |                                  |                                     |                         |   |                             |                     | -               | 95                    | -               | 451 |  |  |
|   | SBIU1 (I)                      | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     | -               | 220                   | 2               | 28  |  |  |
|   | SIU2 (O)                       | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     | -               | 220                   | 2               | 28  |  |  |
|   | SBIL                           | 6                               | 6                               | 0        | 52.8                     | D                       |                                  |                                     |                         |   |                             |                     | -               | 220                   | 2               | 28  |  |  |
|   | SBIT                           | 1469                            | 1471                            | 1        | 27.2                     | C                       |                                  |                                     |                         |   |                             |                     | -               | 75                    | -               | 340 |  |  |
|   | SBOT                           | 1064                            | 1066                            | 2        | 27.7                     | C                       |                                  |                                     |                         |   |                             |                     | -               | 83                    | -               | 366 |  |  |
|   | SBOR                           | 68                              | 70                              | 2        | 26.5                     | C                       |                                  |                                     |                         |   |                             |                     | -               | 83                    | -               | 366 |  |  |

### Strahle St to Woodward Ave - 2025 AM Mitigation

| Intersection                            | Movement  | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |
|---|-----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|
| Roosevelt Blvd & Holmes Ave - Solly Ave | EBL       | -                               | 0                               | -        | 0.0                      | A                       | 0                                | -                                   | -                       | 23.8                                    | C                           | -                   | 0               | -                     | 0               |
|   | EBT       | -                               | 0                               | -        | 0.0                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 0               | -                     | 0               |
|   | EBR       | -                               | 0                               | -        | 0.0                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 0               | -                     | 0               |
|   | WBL       | -                               | 0                               | -        | 0.0                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 0               | -                     | 0               |
|   | WBT       | -                               | 0                               | -        | 0.0                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 0               | -                     | 0               |
|   | WBR       | -                               | 0                               | -        | 0.0                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 0               | -                     | 0               |
|   | NBL       | -                               | 0                               | -        | 0.0                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 42              | -                     | 259             |
|   | NBT       | -                               | 793                             | -        | 20.0                     | B                       |                                  | 803                                 | 20.0                    |   |                             | -                   | 42              | -                     | 259             |
|   | NBR       | -                               | 0                               | -        | 0.0                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 42              | -                     | 259             |
|   | SBL       | -                               | 0                               | -        | 0.0                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 67              | -                     | 515             |
|   | SBT       | -                               | 1069                            | -        | 26.6                     | C                       |                                  | 1079                                | 26.6                    |   |                             | -                   | 67              | -                     | 515             |
|   | SBR       | -                               | 0                               | -        | 0.0                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 67              | -                     | 515             |
| Roosevelt Blvd & Strahle St             | EGL1 (I)  | 145                             | 144                             | -1       | 44.9                     | D                       | 219                              | 44.4                                | D                       | 10.2                                    | B                           | -                   | 39              | -                     | 234             |
|   | EGL2 (I)  | 56                              | 57                              | 1        | 42.7                     | D                       |                                  | -                                   | -                       |   |                             | -                   | 39              | -                     | 234             |
|   | EGL2 (O)  | 18                              | 18                              | 0        | 44.9                     | D                       |                                  | -                                   | -                       |   |                             | -                   | 39              | -                     | 234             |
|   | WBL       | 14                              | 14                              | 0        | 1.0                      | A                       |                                  | 14                                  | 1.0                     |   |                             | -                   | 0               | -                     | 32              |
|   | NBIU2 (O) | 2                               | 1                               | -1       | 38.4                     | D                       |                                  | -                                   | -                       |   |                             | -                   | 31              | -                     | 232             |
|   | NBIL      | 48                              | 45                              | -3       | 55.7                     | E                       |                                  | 1920                                | 10.6                    |   |                             | -                   | 31              | -                     | 232             |
|   | NBIT      | 1871                            | 1874                            | 2        | 9.5                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 31              | -                     | 232             |
|   | NBOT      | 766                             | 772                             | 6        | 7.2                      | A                       |                                  | 804                                 | 7.2                     |   |                             | -                   | 2               | -                     | 106             |
|   | NBOR      | 22                              | 22                              | 0        | 7.0                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 8               | -                     | 190             |
|   | SBIT      | 1760                            | 1753                            | -8       | 6.6                      | A                       |                                  | 1753                                | 6.6                     |   |                             | -                   | 23              | -                     | 125             |
|   | SBOT      | 1051                            | 1050                            | -1       | 10.5                     | B                       |                                  | -                                   | -                       |   |                             | -                   | 23              | -                     | 184             |
|   | SBOR      | 57                              | 59                              | 2        | 14.6                     | B                       |                                  | 1119                                | 10.7                    |   |                             | -                   | 22              | -                     | 184             |
| Strahle SB Crossover Out to In          | SBIT      | 1618                            | 1612                            | -7       | 5.8                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 4               |
| Strahle SB Crossover Out to In          | SB O-I    | 142                             | 141                             | -1       | 7.9                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 155                 | 3               | 99                    | 123             |
| Winchester NB Crossover In to Out       | NBIT      | 781                             | 787                             | 6        | 4.3                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 4               |
| Winchester NB Crossover In to Out       | NB I-O    | 441                             | 442                             | 1        | 7.0                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 250                 | 5               | 135                   | 190             |
| Winchester SB Crossover In to Out       | SBOT      | 1220                            | 1221                            | 1        | 3.0                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 0               |
| Winchester SB Crossover In to Out       | SB I-O    | 30                              | 31                              | 1        | 9.5                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 150                 | 1               | 51                    | 60              |
| Woodward NB Crossover Out to In         | NBIT      | 1575                            | 1576                            | 1        | 4.6                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 2               |
| Woodward NB Crossover Out to In         | NB O-I    | 116                             | 139                             | 24       | 4.4                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 130                 | 2               | 81                    | 95              |
| Roosevelt Blvd & Woodward St            | EGL1 (I)  | 45                              | 41                              | -5       | 146.2                    | F                       | 319                              | 142.9                               | F                       | 38.2                                    | D                           | -                   | 280             | -                     | 700             |
|   | EGL2 (O)  | 138                             | 137                             | -1       | 147.2                    | F                       |                                  | -                                   | -                       |   |                             | -                   | 280             | -                     | 700             |
|   | EBT       | 42                              | 40                              | -1       | 140.6                    | F                       |                                  | -                                   | -                       |   |                             | -                   | 280             | -                     | 700             |
|   | EGL1 (I)  | 84                              | 83                              | 0        | 138.0                    | F                       |                                  | -                                   | -                       |   |                             | -                   | 280             | -                     | 700             |
|   | EGL2 (O)  | 20                              | 18                              | -2       | 130.5                    | F                       |                                  | -                                   | -                       |   |                             | -                   | 280             | -                     | 700             |
|   | WBL1 (I)  | 96                              | 94                              | -1       | 105.7                    | F                       |                                  | -                                   | -                       |   |                             | -                   | 230             | 134                   | 457             |
|   | WBL2 (O)  | 88                              | 86                              | -2       | 102.5                    | F                       |                                  | -                                   | -                       |   |                             | -                   | 230             | 134                   | 457             |
|   | WBT       | 105                             | 104                             | -1       | 67.0                     | E                       | 304                              | 89.3                                | F                       |   |                             | -                   | 230             | 134                   | 457             |
|   | WBR1 (I)  | 10                              | 10                              | 0        | 66.5                     | E                       |                                  | -                                   | -                       |   |                             | -                   | 230             | 134                   | 457             |
|   | WBR2 (O)  | 10                              | 10                              | 0        | 73.7                     | E                       |                                  | -                                   | -                       |   |                             | -                   | 230             | 134                   | 457             |
|   | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 45              | -                     | 192             |
|   | NBIU2 (O) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 45              | -                     | 192             |
|   | NBIT      | 125                             | 127                             | 1        | 68.8                     | E                       |                                  | -                                   | -                       |   |                             | -                   | 45              | -                     | 192             |
|   | NBOT      | 1565                            | 1587                            | 22       | 25.1                     | C                       |                                  | -                                   | -                       |   |                             | -                   | 76              | -                     | 422             |
|   | NBOR      | 1035                            | 1020                            | -15      | 34.7                     | C                       |                                  | -                                   | -                       |   |                             | -                   | 96              | -                     | 450             |
|   | NB O-I    | 18                              | 18                              | 0        | 31.4                     | C                       |                                  | 1048                                | 34.6                    |   |                             | -                   | 96              | -                     | 450             |
|   | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 220             | 2                     | 28              |
|   | SIU2 (O)  | 0                               | 0                               | 0        | 0.0                      | A                       |                                  | -                                   | -                       |   |                             | -                   | 220             | 2                     | 28              |
|   | SBIL      | 6                               | 6                               | 0        | 52.8                     | D                       |                                  | 1476                                | 27.3                    |   |                             | -                   | 220             | 2                     | 28              |
|   | SBIT      | 1469                            | 1471                            | 1        | 27.2                     | C                       |                                  | -                                   | -                       |   |                             | -                   | 75              | -                     | 340             |
|   | SBOT      | 1064                            | 1066                            | 2        | 27.7                     | C                       |                                  | 1145                                | 27.6                    |   |                             | -                   | 83              | -                     | 366             |
|   | SBOR      | 68                              | 70                              | 2        | 26.5                     | C                       |                                  | -                                   | -                       |   |                             | -                   | 83              | -                     | 366             |

### Grant Ave to Bowler St - 2025 No Build AM

| Intersection                               | Movement  | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |  |  |
|--|-----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|--|--|
| Michener St SB<br>Crossover Out to In      | SBIT      | 1284                            | 1279                            | -5       | 1.6                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 0               |  |  |
|  | SB O-I    | 39                              | 33                              | -5       | 8.0                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 100                 | 1               | 75                    | 74              |  |  |
| Michener St NB<br>Crossover Out to In      | NBIT      | 1533                            | 1533                            | 0        | 0.7                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 0               |  |  |
|  | NB O-I    | 36                              | 34                              | -2       | 1.6                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 140                 | 0               | 75                    | 32              |  |  |
| Roosevelt Blvd & Grant Ave                 | EBL1 (I)  | 30                              | 31                              | 2        | 52.6                     | D                       | 1071                             | 36.6                                | D                       | 46.6                                    | D                           | -                   | 21              | -                     | 191             |  |  |
|  | EBL2 (O)  | 118                             | 120                             | 2        | 52.6                     | D                       |                                  |                                     |                         |   |                             | -                   | 21              | -                     | 191             |  |  |
|  | EBT       | 837                             | 832                             | -5       | 33.9                     | C                       |                                  |                                     |                         |   |                             | -                   | 87              | -                     | 398             |  |  |
|  | EBR1 (I)  | 63                              | 63                              | 0        | 34.3                     | C                       |                                  |                                     |                         |   |                             | -                   | 87              | -                     | 398             |  |  |
|  | EBR2 (O)  | 22                              | 22                              | 0        | 36.0                     | D                       |                                  |                                     |                         |   |                             | -                   | 87              | -                     | 398             |  |  |
|  | WBL1 (I)  | 84                              | 83                              | -1       | 80.1                     | F                       | 1304                             | 43.4                                | D                       |   |                             | -                   | 63              | -                     | 263             |  |  |
|  | WBL2 (O)  | 119                             | 122                             | 3        | 82.1                     | F                       |                                  |                                     |                         |   |                             | -                   | 63              | -                     | 263             |  |  |
|  | WBT       | 955                             | 940                             | -15      | 36.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 89              | -                     | 426             |  |  |
|  | WBR1 (I)  | 119                             | 124                             | 5        | 33.1                     | C                       |                                  |                                     |                         |   |                             | -                   | 89              | -                     | 426             |  |  |
|  | WBR2 (O)  | 30                              | 31                              | 2        | 33.3                     | C                       |                                  |                                     |                         |   |                             | -                   | 89              | -                     | 426             |  |  |
|  | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | 1564                             | 40.0                                | D                       |   |                             | -                   | 47              | -                     | 224             |  |  |
|  | NBIU2 (O) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 47              | -                     | 224             |  |  |
|  | NBIL      | 167                             | 161                             | -7       | 56.2                     | E                       |                                  |                                     |                         |   |                             | -                   | 47              | -                     | 224             |  |  |
|  | NBIT      | 1401                            | 1404                            | 2        | 38.2                     | D                       |                                  |                                     |                         |   |                             | -                   | 104             | -                     | 393             |  |  |
|  | NBOT      | 733                             | 738                             | 5        | 37.6                     | D                       | 962                              | 37.9                                | D                       |   |                             | -                   | 83              | -                     | 356             |  |  |
|  | NBOR      | 217                             | 216                             | -1       | 38.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 83              | -                     | 356             |  |  |
|  | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 143             | -                     | 377             |  |  |
|  | SIU2 (O)  | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 143             | -                     | 377             |  |  |
|  | SBIL      | 305                             | 308                             | 3        | 58.1                     | E                       | 1441                             | 60.2                                | E                       |   |                             | -                   | 143             | -                     | 377             |  |  |
|  | SBIT      | 1137                            | 1134                            | -4       | 60.8                     | E                       |                                  |                                     |                         |   |                             | -                   | 143             | -                     | 377             |  |  |
|  | SBOT      | 782                             | 779                             | -4       | 62.7                     | E                       |                                  |                                     |                         |   |                             | -                   | 145             | -                     | 422             |  |  |
|  | SBOR      | 87                              | 88                              | 1        | 61.6                     | E                       |                                  |                                     |                         |   |                             | -                   | 145             | -                     | 422             |  |  |
|  | NBIT      | 1550                            | 1559                            | 10       | 2.6                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 1               | -                     | 78              |  |  |
| Fulmer St NB<br>Crossover Out to In        | NB O-I    | 24                              | 23                              | -1       | 12.7                     | -                       | -                                | -                                   | -                       | -                                       | -                           | 160                 | 1               | 75                    | 64              |  |  |
|  | SBIT      | 1342                            | 1339                            | -3       | 0.5                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 5               |  |  |
| Fulmer St SB<br>Crossover Out to In        | SB O-I    | 100                             | 101                             | 1        | 8.5                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 130                 | 5               | 175                   | 147             |  |  |
|  | EBR       | 43                              | 43                              | 0        | 1.3                      | A                       | 43                               | 1.3                                 | A                       | 16.7                                    | B                           | -                   | 0               | -                     | 40              |  |  |
| Roosevelt Blvd & Whitman Plaza - Fulmer St | WBL       | 44                              | 44                              | 0        | 31.6                     | C                       | 65                               | 33.7                                | C                       |   |                             | -                   | 9               | -                     | 67              |  |  |
|  | WBR1 (I)  | 11                              | 11                              | 0        | 41.5                     | D                       |                                  |                                     |                         |   |                             | -                   | 9               | -                     | 67              |  |  |
|  | WBR2 (O)  | 11                              | 10                              | -1       | 34.5                     | C                       |                                  |                                     |                         |   |                             | -                   | 9               | -                     | 67              |  |  |
|  | NBIU      | 1                               | 0                               | -1       | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 69              | -                     | 281             |  |  |
|  | NBIT      | 1573                            | 1582                            | 9        | 22.4                     | C                       |                                  |                                     |                         |   |                             | -                   | 69              | -                     | 281             |  |  |
|  | NBOT      | 754                             | 764                             | 10       | 19.4                     | B                       | 874                              | 19.6                                | B                       |   |                             | -                   | 41              | -                     | 261             |  |  |
|  | NBOR      | 101                             | 101                             | 0        | 21.8                     | C                       |                                  |                                     |                         |   |                             | -                   | 40              | -                     | 262             |  |  |
|  | SBIU1 (I) | 1                               | 1                               | 0        | 31.0                     | C                       |                                  |                                     |                         |   |                             | -                   | 19              | -                     | 102             |  |  |
|  | SBIU2 (O) | 8                               | 8                               | 0        | 64.0                     | E                       | 1392                             | 12.7                                | B                       |   |                             | -                   | 19              | -                     | 102             |  |  |
|  | SBIL      | 84                              | 88                              | 4        | 58.2                     | E                       |                                  |                                     |                         |   |                             | -                   | 19              | -                     | 102             |  |  |
|  | SBIT      | 1298                            | 1295                            | -3       | 9.3                      | A                       |                                  |                                     |                         |   |                             | -                   | 23              | -                     | 264             |  |  |
|  | SBOT      | 926                             | 926                             | 0        | 9.8                      | A                       | 939                              | 9.8                                 | A                       |   |                             | -                   | 24              | -                     | 293             |  |  |
|  | SBOR      | 6                               | 6                               | 0        | 8.5                      | A                       |                                  |                                     |                         |   |                             | -                   | 24              | -                     | 293             |  |  |

### Grant Ave to Bowler St - 2025 No Build AM

| Intersection                   | Movement  | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |  |  |
|--------------------------------|-----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|--|--|
| Roosevelt Blvd & Lott Street   | EBL1 (I)  | 113                             | 113                             | 0        | 34.2                     | C                       | 217                              | 33.4                                | C                       | 16.0                                    | B                           | -                   | 28              | -                     | 169             |  |  |
|                                | EBR1 (I)  | 88                              | 89                              | 1        | 32.1                     | C                       |                                  |                                     |                         |   |                             | -                   | 28              | -                     | 169             |  |  |
|                                | EBR2 (O)  | 15                              | 15                              | -1       | 35.3                     | D                       |                                  |                                     |                         |   |                             | -                   | 28              | -                     | 169             |  |  |
|                                | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 24              | -                     | 144             |  |  |
|                                | NBIU2 (O) | 6                               | 6                               | 1        | 61.0                     | E                       |                                  |                                     |                         |   |                             | -                   | 24              | -                     | 144             |  |  |
|                                | NBIL      | 64                              | 65                              | 1        | 68.0                     | E                       |                                  |                                     |                         |   |                             | -                   | 24              | -                     | 144             |  |  |
|                                | NBIT      | 1516                            | 1523                            | 7        | 5.9                      | A                       |                                  |                                     |                         |   |                             | -                   | 13              | -                     | 337             |  |  |
|                                | NBOT      | 766                             | 783                             | 16       | 3.6                      | A                       | 791                              | 3.6                                 | A                       |   |                             | -                   | 10              | -                     | 212             |  |  |
|                                | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | -                                | 59                                  | -                       |   |                             | 330                 |                 |                       |                 |  |  |
|                                | SBIT      | 1303                            | 1303                            | 0        | 23.6                     | C                       | -                                | 59                                  | -                       |   |                             | 330                 |                 |                       |                 |  |  |
|                                | SBOT      | 911                             | 910                             | 0        | 24.3                     | C                       | -                                | 63                                  | -                       |   |                             | 341                 |                 |                       |                 |  |  |
|                                | SBOR      | 11                              | 12                              | 1        | 22.1                     | C                       | -                                | 63                                  | -                       |   |                             | 341                 |                 |                       |                 |  |  |
|                                | NBOT      | 766                             | 782                             | 16       | 1.6                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 2               | -                     | 91              |  |  |
|                                | NB I-O    | 150                             | 150                             | 0        | 6.3                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 150                 | 4               | 75                    | 115             |  |  |
| Roosevelt Blvd & Bowler St Ped | EBR       | 47                              | 47                              | -1       | 5.3                      | A                       | 47                               | 5.3                                 | A                       | 6.0                                     | A                           | -                   | 1               | -                     | 54              |  |  |
|                                | NBIT      | 1479                            | 1481                            | 2        | 6.4                      | A                       | 1481                             | 6.4                                 | A                       |   |                             | -                   | 16              | -                     | 303             |  |  |
|                                | NBOT      | 916                             | 930                             | 14       | 4.4                      | A                       | 938                              | 4.4                                 | A                       |   |                             | -                   | 12              | -                     | 173             |  |  |
|                                | SBIT      | 1303                            | 1303                            | -1       | 6.6                      | A                       | 1303                             | 6.6                                 | A                       |   |                             | -                   | 13              | -                     | 251             |  |  |
|                                | SBOT      | 875                             | 878                             | 3        | 6.6                      | A                       | 969                              | 6.4                                 | A                       |   |                             | -                   | 15              | -                     | 264             |  |  |
| Roosevelt Blvd & Conwell Ave   | SBOR      | 84                              | 85                              | 1        | 4.4                      | A                       |                                  |                                     |                         |   |                             | -                   | 15              | -                     | 264             |  |  |
|                                | EBL1 (I)  | -                               | 0                               | -        | 0.0                      | A                       | 0                                | -                                   | -                       | 6.6                                     | A                           | -                   | 0               | -                     | 0               |  |  |
|                                | EBR1 (I)  | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |  |  |
|                                | EBR2 (O)  | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |  |  |
|                                | NBIU1 (I) | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |  |  |
|                                | NBIU2 (O) | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |  |  |
|                                | NBIL      | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |  |  |
|                                | NBIT      | -                               | 1481                            | -        | 7.3                      | A                       |                                  |                                     |                         |   |                             | -                   | 12              | -                     | 281             |  |  |
|                                | NBOT      | -                               | 930                             | -        | 5.3                      | A                       | 939                              | 5.3                                 | A                       |   |                             | -                   | 6               | -                     | 215             |  |  |
|                                | SBIU1 (I) | -                               | 0                               | -        | 0.0                      | A                       | -                                | 0                                   | -                       |   |                             | 0                   |                 |                       |                 |  |  |
|                                | SBIT      | -                               | 0                               | -        | 0.0                      | A                       | -                                | 0                                   | -                       |   |                             | 0                   |                 |                       |                 |  |  |
|                                | SBOT      | -                               | 5                               | -        | 0.0                      | A                       | 12                               | 0.0                                 | A                       |   |                             | -                   | 6               | -                     | 70              |  |  |
|                                | SBOR      | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |  |  |

### Grant Ave to Bowler St - 2025 AM Mitigation

| Intersection                               | Movement  | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |  |  |
|--|-----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|--|--|
| Michener St SB<br>Crossover Out to In      | SBIT      | 1284                            | 1279                            | -5       | 1.6                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 0               |  |  |
|  | SB O-I    | 39                              | 34                              | -5       | 8.1                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 100                 | 1               | 64                    | 78              |  |  |
| Michener St NB<br>Crossover Out to In      | NBIT      | 1533                            | 1533                            | 0        | 0.7                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 0               |  |  |
|  | NB O-I    | 36                              | 34                              | -2       | 1.6                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 140                 | 0               | 35                    | 32              |  |  |
| Roosevelt Blvd & Grant Ave                 | EBL1 (I)  | 30                              | 31                              | 2        | 52.6                     | D                       | 1071                             | 36.6                                | D                       | 46.7                                    | D                           | -                   | 21              | -                     | 191             |  |  |
|  | EBL2 (O)  | 118                             | 120                             | 2        | 52.5                     | D                       |                                  |                                     |                         |   |                             | -                   | 21              | -                     | 191             |  |  |
|  | EBT       | 837                             | 832                             | -5       | 33.9                     | C                       |                                  |                                     |                         |   |                             | -                   | 87              | -                     | 398             |  |  |
|  | EBR1 (I)  | 63                              | 63                              | 0        | 34.2                     | C                       |                                  |                                     |                         |   |                             | -                   | 87              | -                     | 398             |  |  |
|  | EBR2 (O)  | 22                              | 22                              | 0        | 36.0                     | D                       |                                  |                                     |                         |   |                             | -                   | 87              | -                     | 398             |  |  |
|  | WBL1 (I)  | 84                              | 83                              | -1       | 80.9                     | F                       | 1304                             | 43.5                                | D                       |   |                             | -                   | 64              | -                     | 263             |  |  |
|  | WBL2 (O)  | 119                             | 122                             | 3        | 82.7                     | F                       |                                  |                                     |                         |   |                             | -                   | 64              | -                     | 263             |  |  |
|  | WBT       | 955                             | 940                             | -15      | 36.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 89              | -                     | 423             |  |  |
|  | WBR1 (I)  | 119                             | 124                             | 5        | 33.1                     | C                       |                                  |                                     |                         |   |                             | -                   | 89              | -                     | 423             |  |  |
|  | WBR2 (O)  | 30                              | 31                              | 2        | 33.3                     | C                       |                                  |                                     |                         |   |                             | -                   | 89              | -                     | 423             |  |  |
|  | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | 1564                             | 40.0                                | D                       |   |                             | -                   | 47              | -                     | 224             |  |  |
|  | NBIU2 (O) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 47              | -                     | 224             |  |  |
|  | NBIL      | 167                             | 161                             | -7       | 56.2                     | E                       |                                  |                                     |                         |   |                             | -                   | 47              | -                     | 224             |  |  |
|  | NBIT      | 1401                            | 1404                            | 2        | 38.2                     | D                       |                                  |                                     |                         |   |                             | -                   | 104             | -                     | 393             |  |  |
|  | NBOT      | 733                             | 738                             | 5        | 37.6                     | D                       | 962                              | 37.9                                | D                       |   |                             | -                   | 83              | -                     | 356             |  |  |
|  | NBOR      | 217                             | 216                             | -1       | 38.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 83              | -                     | 356             |  |  |
|  | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 143             | -                     | 378             |  |  |
|  | SIU2 (O)  | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 143             | -                     | 378             |  |  |
|  | SBIL      | 305                             | 308                             | 3        | 58.0                     | E                       | 1442                             | 60.1                                | E                       |   |                             | -                   | 143             | -                     | 378             |  |  |
|  | SBIT      | 1137                            | 1134                            | -4       | 60.7                     | E                       |                                  |                                     |                         |   |                             | -                   | 143             | -                     | 378             |  |  |
|  | SBOT      | 782                             | 779                             | -4       | 63.2                     | E                       |                                  |                                     |                         |   |                             | -                   | 146             | -                     | 426             |  |  |
|  | SBOR      | 87                              | 88                              | 2        | 62.2                     | E                       |                                  |                                     |                         |   |                             | -                   | 146             | -                     | 426             |  |  |
|  | NBIT      | 1550                            | 1559                            | 10       | 2.6                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 1               | -                     | 76              |  |  |
| Fulmer St NB<br>Crossover Out to In        | NB O-I    | 24                              | 23                              | -1       | 12.7                     | -                       | -                                | -                                   | -                       | -                                       | -                           | 160                 | 1               | 54                    | 64              |  |  |
|  | SBIT      | 1342                            | 1339                            | -3       | 0.5                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 5               |  |  |
| Fulmer St SB<br>Crossover Out to In        | SB O-I    | 100                             | 101                             | 1        | 8.1                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 130                 | 5               | 118                   | 137             |  |  |
|  | EBR       | 43                              | 43                              | 0        | 1.3                      | A                       | 43                               | 1.3                                 | A                       | 16.8                                    | B                           | -                   | 0               | -                     | 40              |  |  |
| Roosevelt Blvd & Whitman Plaza - Fulmer St | WBL       | 44                              | 44                              | 0        | 31.6                     | C                       | 65                               | 33.7                                | C                       |   |                             | -                   | 9               | -                     | 67              |  |  |
|  | WBR1 (I)  | 11                              | 11                              | 0        | 41.5                     | D                       |                                  |                                     |                         |   |                             | -                   | 9               | -                     | 67              |  |  |
|  | WBR2 (O)  | 11                              | 10                              | -1       | 34.5                     | C                       |                                  |                                     |                         |   |                             | -                   | 9               | -                     | 67              |  |  |
|  | NBIU      | 1                               | 0                               | -1       | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 69              | -                     | 281             |  |  |
|  | NBIT      | 1573                            | 1582                            | 9        | 22.4                     | C                       |                                  |                                     |                         |   |                             | -                   | 69              | -                     | 281             |  |  |
|  | NBOT      | 754                             | 764                             | 10       | 19.3                     | B                       | 874                              | 19.6                                | B                       |   |                             | -                   | 41              | -                     | 261             |  |  |
|  | NBOR      | 101                             | 101                             | 0        | 21.8                     | C                       |                                  |                                     |                         |   |                             | -                   | 40              | -                     | 262             |  |  |
|  | SBIU1 (I) | 1                               | 1                               | 0        | 31.0                     | C                       |                                  |                                     |                         |   |                             | -                   | 19              | -                     | 102             |  |  |
|  | SBIU2 (O) | 8                               | 8                               | 0        | 64.0                     | E                       | 1392                             | 12.7                                | B                       |   |                             | -                   | 19              | -                     | 102             |  |  |
|  | SBIL      | 84                              | 88                              | 4        | 58.2                     | E                       |                                  |                                     |                         |   |                             | -                   | 19              | -                     | 102             |  |  |
|  | SBIT      | 1298                            | 1295                            | -3       | 9.3                      | A                       |                                  |                                     |                         |   |                             | -                   | 23              | -                     | 263             |  |  |
|  | SBOT      | 926                             | 926                             | 0        | 10.3                     | B                       |                                  |                                     |                         |   |                             | -                   | 24              | -                     | 298             |  |  |
|  | SBOR      | 6                               | 6                               | 0        | 8.5                      | A                       |                                  |                                     |                         |   |                             | -                   | 24              | -                     | 298             |  |  |

### Grant Ave to Bowler St - 2025 AM Mitigation

| Intersection                   | Movement  | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |  |  |
|--------------------------------|-----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|--|--|
| Roosevelt Blvd & Lott Street   | EBL1 (I)  | 113                             | 113                             | 0        | 34.2                     | C                       | 217                              | 33.4                                | C                       | 16.0                                    | B                           | -                   | 28              | -                     | 169             |  |  |
|                                | EBR1 (I)  | 88                              | 89                              | 1        | 32.1                     | C                       |                                  |                                     |                         |   |                             | -                   | 28              | -                     | 169             |  |  |
|                                | EBR2 (O)  | 15                              | 15                              | -1       | 35.3                     | D                       |                                  |                                     |                         |   |                             | -                   | 28              | -                     | 169             |  |  |
|                                | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 24              | -                     | 144             |  |  |
|                                | NBIU2 (O) | 6                               | 6                               | 1        | 61.0                     | E                       |                                  |                                     |                         |   |                             | -                   | 24              | -                     | 144             |  |  |
|                                | NBIL      | 64                              | 65                              | 1        | 68.0                     | E                       |                                  |                                     |                         |   |                             | -                   | 24              | -                     | 144             |  |  |
|                                | NBIT      | 1516                            | 1523                            | 7        | 5.9                      | A                       |                                  |                                     |                         |   |                             | -                   | 13              | -                     | 334             |  |  |
|                                | NBOT      | 766                             | 783                             | 16       | 3.6                      | A                       | 791                              | 3.6                                 | A                       |   |                             | -                   | 10              | -                     | 210             |  |  |
|                                | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | -                                | 59                                  | -                       |   |                             | 330                 |                 |                       |                 |  |  |
|                                | SBIT      | 1303                            | 1303                            | 0        | 23.6                     | C                       | -                                | 59                                  | -                       |   |                             | 330                 |                 |                       |                 |  |  |
|                                | SBOT      | 911                             | 910                             | 0        | 24.3                     | C                       | -                                | 63                                  | -                       |   |                             | 341                 |                 |                       |                 |  |  |
|                                | SBOR      | 11                              | 12                              | 1        | 22.1                     | C                       | -                                | 63                                  | -                       |   |                             | 341                 |                 |                       |                 |  |  |
|                                | NBOT      | 766                             | 782                             | 16       | 1.6                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 2               | -                     | 90              |  |  |
|                                | NB I-O    | 150                             | 150                             | 0        | 6.3                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 150                 | 4               | 97                    | 114             |  |  |
| Roosevelt Blvd & Bowler St Ped | EBR       | 47                              | 47                              | -1       | 5.3                      | A                       | 47                               | 5.3                                 | A                       | 6.0                                     | A                           | -                   | 1               | -                     | 54              |  |  |
|                                | NBIT      | 1479                            | 1481                            | 2        | 6.4                      | A                       | 1481                             | 6.4                                 | A                       |   |                             | -                   | 16              | -                     | 299             |  |  |
|                                | NBOT      | 916                             | 930                             | 14       | 4.4                      | A                       | 938                              | 4.4                                 | A                       |   |                             | -                   | 12              | -                     | 173             |  |  |
|                                | SBIT      | 1303                            | 1303                            | -1       | 6.6                      | A                       | 1303                             | 6.6                                 | A                       |   |                             | -                   | 13              | -                     | 251             |  |  |
|                                | SBOT      | 875                             | 878                             | 3        | 6.6                      | A                       | 969                              | 6.4                                 | A                       |   |                             | -                   | 15              | -                     | 264             |  |  |
| Roosevelt Blvd & Conwell Ave   | SBOR      | 84                              | 85                              | 1        | 4.4                      | A                       |                                  |                                     |                         |   |                             | -                   | 15              | -                     | 264             |  |  |
|                                | EBL1 (I)  | -                               | 0                               | -        | 0.0                      | A                       | 0                                | -                                   | -                       | 6.6                                     | A                           | -                   | 0               | -                     | 0               |  |  |
|                                | EBR1 (I)  | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |  |  |
|                                | EBR2 (O)  | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |  |  |
|                                | NBIU1 (I) | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |  |  |
|                                | NBIU2 (O) | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |  |  |
|                                | NBIL      | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |  |  |
|                                | NBIT      | -                               | 1481                            | -        | 7.3                      | A                       |                                  |                                     |                         |   |                             | -                   | 12              | -                     | 283             |  |  |
|                                | NBOT      | -                               | 930                             | -        | 5.3                      | A                       | 939                              | 5.3                                 | A                       |   |                             | -                   | 6               | -                     | 213             |  |  |
|                                | SBIU1 (I) | -                               | 0                               | -        | 0.0                      | A                       | -                                | 0                                   | -                       |   |                             | 0                   |                 |                       |                 |  |  |
|                                | SBIT      | -                               | 0                               | -        | 0.0                      | A                       | -                                | 0                                   | -                       |   |                             | 0                   |                 |                       |                 |  |  |
|                                | SBOT      | -                               | 5                               | -        | 0.0                      | A                       | 12                               | 0.0                                 | A                       |   |                             | -                   | 6               | -                     | 70              |  |  |
|                                | SBOR      | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |  |  |

### Crown Way to Southampton Rd - 2025 No Build AM

| Intersection                           | Movement  | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |  |  |
|--|-----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|--|--|
| Roosevelt Blvd & Hornig Rd - Crown Way | EBL1 (I)  | 14                              | 15                              | 0        | 34.1                     | C                       | 46                               | 29.5                                | C                       | 28.6                                    | C                           | -                   | 6               | -                     | 67              |  |  |
|  | EBL2 (O)  | 15                              | 1                               | -14      | 16.2                     | B                       |                                  |                                     |                         |   |                             | -                   | 6               | -                     | 67              |  |  |
|  | EBT       | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 6               | -                     | 67              |  |  |
|  | EBR1 (I)  | 8                               | 8                               | 0        | 26.1                     | C                       |                                  |                                     |                         |   |                             | -                   | 6               | -                     | 67              |  |  |
|  | EBR2 (O)  | 22                              | 22                              | 0        | 28.6                     | C                       |                                  |                                     |                         |   |                             | -                   | 6               | -                     | 67              |  |  |
|  | WBL1 (I)  | 1                               | 2                               | 1        | 36.7                     | D                       | 23                               | 33.7                                | C                       |   |                             | -                   | 3               | -                     | 36              |  |  |
|  | WBL2 (O)  | 6                               | 6                               | 0        | 31.0                     | C                       |                                  |                                     |                         |   |                             | -                   | 3               | -                     | 36              |  |  |
|  | WBT       | 15                              | 15                              | -1       | 34.1                     | C                       |                                  |                                     |                         |   |                             | -                   | 3               | -                     | 36              |  |  |
|  | WBR1 (I)  | 0                               | 0                               | 0        | 0.0                      | A                       | 1496                             | 30.0                                | C                       |   |                             | -                   | 3               | -                     | 36              |  |  |
|  | WBR2 (O)  | 1                               | 1                               | 0        | 38.3                     | D                       |                                  |                                     |                         |   |                             | -                   | 3               | -                     | 36              |  |  |
|  | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 320                 | 80              | -                     | 302             |  |  |
|  | NBIU2 (O) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 320                 | 80              | -                     | 302             |  |  |
|  | NBIL      | 143                             | 139                             | -5       | 57.6                     | E                       |                                  |                                     |                         |   |                             | 320                 | 80              | -                     | 302             |  |  |
|  | NBIT      | 1354                            | 1357                            | 4        | 27.2                     | C                       | 1834                             | 42.0                                | D                       |   |                             | -                   | 80              | -                     | 302             |  |  |
|  | NBOT      | 1701                            | 1710                            | 9        | 43.4                     | D                       |                                  |                                     |                         |   |                             | -                   | 189             | -                     | 702             |  |  |
|  | NBOR      | 118                             | 116                             | -2       | 21.7                     | C                       |                                  |                                     |                         |   |                             | -                   | 211             | -                     | 733             |  |  |
|  | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | 1088                             | 17.9                                | B                       |   |                             | -                   | 43              | -                     | 157             |  |  |
|  | SIU2 (O)  | 13                              | 14                              | 1        | 66.9                     | E                       |                                  |                                     |                         |   |                             | -                   | 43              | -                     | 157             |  |  |
|  | SBIL      | 73                              | 74                              | 1        | 70.2                     | E                       | 1737                             | 19.8                                | B                       |   |                             | -                   | 43              | -                     | 157             |  |  |
|  | SBIT      | 1011                            | 1000                            | -11      | 13.3                     | B                       |                                  |                                     |                         |   |                             | -                   | 43              | -                     | 157             |  |  |
|  | SBOT      | 1505                            | 1523                            | 17       | 19.5                     | B                       |                                  |                                     |                         |   |                             | -                   | 88              | -                     | 224             |  |  |
|  | SBOR      | 212                             | 209                             | -3       | 21.6                     | C                       |                                  |                                     |                         |   |                             | -                   | 88              | -                     | 224             |  |  |
| Crown Way NB Crossover - Out to In     | NBIT      | 1368                            | 1373                            | 5        | 0.9                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | -               | -                     | -               |  |  |
| Crown Way SB Crossover - In to Out     | NB O-I    | 393                             | 394                             | 1        | 19.9                     | -                       | -                                | -                                   | -                       | -                                       | -                           | 185                 | 35              | 472                   | 472             |  |  |
| Roosevelt Blvd & Southampton Rd        | SBOT      | 1687                            | 1701                            | 14       | 4.8                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | -               | -                     | -               |  |  |
|  | SB I-O    | 30                              | 28                              | -2       | 19.2                     | -                       | -                                | -                                   | -                       | -                                       | -                           | 220                 | 3               | 65                    | 76              |  |  |
|  | EBL1 (I)  | 86                              | 81                              | -5       | 199.5                    | F                       | 836                              | 75.0                                | E                       | 43.8                                    | D                           | -                   | 219             | -                     | 679             |  |  |
|  | EBL2 (O)  | 78                              | 72                              | -6       | 202.7                    | F                       |                                  |                                     |                         |   |                             | -                   | 219             | -                     | 679             |  |  |
|  | EBT       | 386                             | 385                             | -1       | 46.4                     | D                       |                                  |                                     |                         |   |                             | -                   | 219             | -                     | 679             |  |  |
|  | EBR1 (I)  | 80                              | 83                              | 3        | 46.8                     | D                       |                                  |                                     |                         |   |                             | -                   | 219             | -                     | 679             |  |  |
|  | EBR2 (O)  | 212                             | 213                             | 1        | 47.0                     | D                       |                                  |                                     |                         |   |                             | -                   | 215             | -                     | 679             |  |  |
|  | WBL1 (I)  | 32                              | 31                              | -1       | 146.1                    | F                       | 794                              | 66.5                                | E                       |   |                             | -                   | 154             | -                     | 418             |  |  |
|  | WBL2 (O)  | 156                             | 151                             | -5       | 143.9                    | F                       |                                  |                                     |                         |   |                             | -                   | 154             | -                     | 418             |  |  |
|  | WBT       | 281                             | 280                             | -1       | 41.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 154             | -                     | 418             |  |  |
|  | WBR1 (I)  | 201                             | 203                             | 1        | 44.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 154             | -                     | 418             |  |  |
|  | WBR2 (O)  | 128                             | 127                             | 0        | 43.8                     | D                       |                                  |                                     |                         |   |                             | -                   | 148             | -                     | 418             |  |  |
|  | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | 1764                             | 28.7                                | C                       |   |                             | -                   | 124             | -                     | 374             |  |  |
|  | NBIU2 (O) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 124             | -                     | 374             |  |  |
|  | NBIL      | 248                             | 245                             | -3       | 76.4                     | E                       | 1344                             | 30.7                                | C                       |   |                             | -                   | 124             | -                     | 374             |  |  |
|  | NBIT      | 1514                            | 1520                            | 6        | 21.1                     | C                       |                                  |                                     |                         |   |                             | -                   | 124             | -                     | 374             |  |  |
|  | NBOT      | 1079                            | 1089                            | 10       | 37.7                     | D                       | 1261                             | 47.8                                | D                       |   |                             | -                   | 122             | -                     | 429             |  |  |
|  | NBOR      | 245                             | 246                             | 1        | -                        | -                       |                                  |                                     |                         |   |                             | -                   | 122             | -                     | 429             |  |  |
|  | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | 1398                             | 40.5                                | D                       |   |                             | 720                 | 179             | -                     | 423             |  |  |
|  | SIU2 (O)  | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 720                 | 179             | -                     | 423             |  |  |
|  | SBIL      | 261                             | 261                             | 0        | 108.4                    | F                       |                                  |                                     |                         |   |                             | 720                 | 179             | -                     | 423             |  |  |
|  | SBIT      | 1014                            | 1000                            | -14      | 32.0                     | C                       |                                  |                                     |                         |   |                             | -                   | 179             | -                     | 423             |  |  |
|  | SBOT      | 1319                            | 1327                            | 8        | 40.6                     | D                       |                                  |                                     |                         |   |                             | -                   | 145             | -                     | 547             |  |  |
|  | SBOR      | 65                              | 66                              | 1        | 38.0                     | D                       |                                  |                                     |                         |   |                             | -                   | 145             | -                     | 547             |  |  |

### Crown Way to Southampton Rd - 2025 AM Mitigation Option 1

| Intersection                           | Movement  | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |  |  |
|--|-----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|--|--|
| Roosevelt Blvd & Hornig Rd - Crown Way | EBL1 (I)  | 14                              | 15                              | 0        | 34.1                     | C                       | 46                               | 29.5                                | C                       | 27.4                                    | C                           | -                   | 6               | -                     | 67              |  |  |
|  | EBL2 (O)  | 15                              | 1                               | -14      | 16.2                     | B                       |                                  |                                     |                         |   |                             | -                   | 6               | -                     | 67              |  |  |
|  | EBT       | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 6               | -                     | 67              |  |  |
|  | EBR1 (I)  | 8                               | 8                               | 0        | 26.1                     | C                       |                                  |                                     |                         |   |                             | -                   | 6               | -                     | 67              |  |  |
|  | EBR2 (O)  | 22                              | 22                              | 0        | 28.6                     | C                       |                                  |                                     |                         |   |                             | -                   | 6               | -                     | 67              |  |  |
|  | WBL1 (I)  | 1                               | 2                               | 1        | 36.7                     | D                       |                                  |                                     |                         |   |                             | -                   | 3               | -                     | 36              |  |  |
|  | WBL2 (O)  | 6                               | 6                               | 0        | 31.0                     | C                       | 23                               | 33.7                                | C                       |   |                             | -                   | 3               | -                     | 36              |  |  |
|  | WBT       | 15                              | 15                              | -1       | 34.1                     | C                       |                                  |                                     |                         |   |                             | -                   | 3               | -                     | 36              |  |  |
|  | WBR1 (I)  | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 3               | -                     | 36              |  |  |
|  | WBR2 (O)  | 1                               | 1                               | 0        | 38.3                     | D                       |                                  |                                     |                         |   |                             | -                   | 3               | -                     | 36              |  |  |
|  | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | 1496                             | 30.0                                | C                       |   |                             | 320                 | 80              | -                     | 301             |  |  |
|  | NBIU2 (O) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 320                 | 80              | -                     | 301             |  |  |
|  | NBIL      | 143                             | 139                             | -5       | 57.6                     | E                       |                                  |                                     |                         |   |                             | 320                 | 80              | -                     | 301             |  |  |
|  | NBIT      | 1354                            | 1358                            | 4        | 27.2                     | C                       |                                  |                                     |                         |   |                             | -                   | 80              | -                     | 301             |  |  |
|  | NBOT      | 1701                            | 1711                            | 10       | 40.2                     | D                       | 1835                             | 38.6                                | D                       |   |                             | -                   | 170             | -                     | 657             |  |  |
|  | NBOR      | 118                             | 115                             | -3       | 16.0                     | B                       |                                  |                                     |                         |   |                             | -                   | 191             | -                     | 687             |  |  |
|  | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 42              | -                     | 132             |  |  |
|  | SIU2 (O)  | 13                              | 14                              | 1        | 66.2                     | E                       | 1092                             | 17.3                                | B                       |   |                             | -                   | 42              | -                     | 132             |  |  |
|  | SBIL      | 73                              | 75                              | 2        | 71.3                     | E                       |                                  |                                     |                         |   |                             | -                   | 42              | -                     | 132             |  |  |
|  | SBIT      | 1011                            | 1003                            | -8       | 12.6                     | B                       |                                  |                                     |                         |   |                             | -                   | 42              | -                     | 132             |  |  |
|  | SBOT      | 1505                            | 1518                            | 13       | 19.3                     | B                       | 1734                             | 19.6                                | B                       |   |                             | -                   | 88              | -                     | 227             |  |  |
|  | SBOR      | 212                             | 210                             | -3       | 21.9                     | C                       |                                  |                                     |                         |   |                             | -                   | 88              | -                     | 227             |  |  |
| Crown Way NB Crossover - Out to In     | NBIT      | 1368                            | 1374                            | 5        | 1.1                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | -               | -                     | -               |  |  |
| Crown Way SB Crossover - In to Out     | NB O-I    | 393                             | 394                             | 1        | 19.2                     | -                       | -                                | -                                   | -                       | -                                       | -                           | 335                 | 27              | 343                   | 376             |  |  |
|  | SBOT      | 1717                            | 1728                            | 10       | 4.9                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | -               | -                     | -               |  |  |
| Roosevelt Blvd & Southampton Rd        | SB I-O    | -                               | -                               | -        | -                        | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | -               | -                     | -               |  |  |
|  | EBL1 (I)  | 86                              | 79                              | -7       | 220.1                    | F                       | 828                              | 77.3                                | E                       | 44.3                                    | D                           | -                   | 230             | -                     | 630             |  |  |
|  | EBL2 (O)  | 78                              | 71                              | -7       | 225.7                    | F                       |                                  |                                     |                         |   |                             | -                   | 230             | -                     | 630             |  |  |
|  | EBT       | 386                             | 381                             | -5       | 44.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 230             | -                     | 630             |  |  |
|  | EBR1 (I)  | 80                              | 83                              | 2        | 45.5                     | D                       |                                  |                                     |                         |   |                             | -                   | 230             | -                     | 630             |  |  |
|  | EBR2 (O)  | 212                             | 212                             | 0        | 44.6                     | D                       |                                  |                                     |                         |   |                             | -                   | 225             | -                     | 630             |  |  |
|  | WBL1 (I)  | 32                              | 31                              | -1       | 162.1                    | F                       |                                  |                                     |                         |   |                             | -                   | 170             | -                     | 451             |  |  |
|  | WBL2 (O)  | 156                             | 151                             | -5       | 163.3                    | F                       | 793                              | 71.4                                | E                       |   |                             | -                   | 170             | -                     | 451             |  |  |
|  | WBT       | 281                             | 280                             | -1       | 43.3                     | D                       |                                  |                                     |                         |   |                             | -                   | 170             | -                     | 451             |  |  |
|  | WBR1 (I)  | 201                             | 203                             | 2        | 45.5                     | D                       |                                  |                                     |                         |   |                             | -                   | 170             | -                     | 451             |  |  |
|  | WBR2 (O)  | 128                             | 127                             | -1       | 43.0                     | D                       |                                  |                                     |                         |   |                             | -                   | 164             | -                     | 451             |  |  |
|  | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | 1763                             | 29.3                                | C                       |   |                             | -                   | 129             | -                     | 386             |  |  |
|  | NBIU2 (O) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 129             | -                     | 386             |  |  |
|  | NBIL      | 248                             | 245                             | -3       | 81.1                     | F                       |                                  |                                     |                         |   |                             | -                   | 129             | -                     | 386             |  |  |
|  | NBIT      | 1514                            | 1519                            | 5        | 20.9                     | C                       |                                  |                                     |                         |   |                             | -                   | 129             | -                     | 386             |  |  |
|  | NBOT      | 1079                            | 1091                            | 12       | 36.4                     | D                       | 1345                             | 29.7                                | C                       |   |                             | -                   | 120             | -                     | 389             |  |  |
|  | NBOR      | 245                             | 246                             | 0        | -                        | -                       |                                  |                                     |                         |   |                             | -                   | 120             | -                     | 389             |  |  |
|  | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 720                 | 164             | -                     | 405             |  |  |
|  | SIU2 (O)  | 0                               | 0                               | 0        | 0.0                      | A                       | 1231                             | 46.0                                | D                       |   |                             | 720                 | 164             | -                     | 405             |  |  |
|  | SBIL      | 261                             | 255                             | -6       | 99.7                     | F                       |                                  |                                     |                         |   |                             | 720                 | 164             | -                     | 405             |  |  |
|  | SBIT      | 984                             | 976                             | -8       | 32.0                     | C                       |                                  |                                     |                         |   |                             | -                   | 164             | -                     | 405             |  |  |
|  | SBOT      | 1349                            | 1357                            | 9        | 41.1                     | D                       | 1429                             | 41.1                                | D                       |   |                             | -                   | 150             | -                     | 606             |  |  |
|  | SBOR      | 65                              | 66                              | 1        | 39.7                     | D                       |                                  |                                     |                         |   |                             | -                   | 150             | -                     | 606             |  |  |

## Crown way to Southampton Rd - 2025 AM Mitigation Option 2

| Intersection                           | Movement  | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |  |  |
|--|-----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|--|--|
| Roosevelt Blvd & Hornig Rd - Crown Way | EBL1 (I)  | 14                              | 15                              | 0        | 34.1                     | C                       | 46                               | 29.5                                | C                       | 21.6                                    | C                           | -                   | 6               | -                     | 67              |  |  |
|  | EBL2 (O)  | 15                              | 1                               | -14      | 16.2                     | B                       |                                  |                                     |                         |   |                             | -                   | 6               | -                     | 67              |  |  |
|  | EBT       | 0                               | 0                               | 0        | 0.0                      | A                       |                                  | 23                                  | 33.9                    | C                                       |                             | -                   | 6               | -                     | 67              |  |  |
|  | EBR1 (I)  | 8                               | 8                               | 0        | 26.1                     | C                       |                                  |                                     |                         |   |                             | -                   | 6               | -                     | 67              |  |  |
|  | EBR2 (O)  | 22                              | 22                              | 0        | 28.6                     | C                       | 1894                             | 22.9                                | C                       | 21.6                                    |                             | -                   | 6               | -                     | 67              |  |  |
|  | WBL1 (I)  | 1                               | 2                               | 1        | 36.7                     | D                       |                                  |                                     |                         |   |                             | -                   | 3               | -                     | 36              |  |  |
|  | WBL2 (O)  | 6                               | 6                               | 0        | 31.0                     | C                       |                                  | 1440                                | 24.9                    | C                                       |                             | -                   | 3               | -                     | 36              |  |  |
|  | WBT       | 15                              | 15                              | -1       | 34.1                     | C                       |                                  |                                     |                         |   |                             | -                   | 3               | -                     | 36              |  |  |
|  | WBR1 (I)  | 0                               | 0                               | 0        | 0.0                      | A                       | 1087                             | 17.6                                | B                       | 46.2                                    |                             | -                   | 3               | -                     | 36              |  |  |
|  | WBR2 (O)  | 1                               | 1                               | 0        | 42.2                     | D                       |                                  |                                     |                         |   |                             | -                   | 3               | -                     | 36              |  |  |
|  | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | 1747                             | 75                                  | C                       | 21.6                                    |                             | 320                 | 75              | -                     | 323             |  |  |
|  | NBIU2 (O) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 320                 | 75              | -                     | 323             |  |  |
|  | NBIL      | 143                             | 141                             | -2       | 47.2                     | D                       | 1308                             | 92                                  | C                       | 21.6                                    |                             | 320                 | 75              | -                     | 323             |  |  |
|  | NBIT      | 1747                            | 1752                            | 6        | 20.9                     | C                       |                                  |                                     |                         |   |                             | -                   | 75              | -                     | 323             |  |  |
|  | NBOT      | 1308                            | 1317                            | 8        | 26.2                     | C                       | 118                              | 111                                 | C                       | 21.6                                    |                             | -                   | 92              | -                     | 402             |  |  |
|  | NBOR      | 118                             | 115                             | -3       | 10.0                     | B                       |                                  |                                     |                         |   |                             | -                   | 111             | -                     | 433             |  |  |
|  | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | 1011                             | 143                                 | B                       | 46.2                                    |                             | -                   | 43              | -                     | 144             |  |  |
|  | SIU2 (O)  | 13                              | 14                              | 1        | 68.7                     | E                       |                                  |                                     |                         |   |                             | -                   | 43              | -                     | 144             |  |  |
|  | SBIL      | 73                              | 74                              | 2        | 71.8                     | E                       | 1505                             | 144                                 | B                       | 46.2                                    |                             | -                   | 43              | -                     | 144             |  |  |
|  | SBIT      | 1011                            | 999                             | -12      | 12.8                     | B                       |                                  |                                     |                         |   |                             | -                   | 43              | -                     | 144             |  |  |
|  | SBOT      | 1505                            | 1521                            | 16       | 19.3                     | B                       | 152                              | 88                                  | B                       | 46.2                                    |                             | -                   | 88              | -                     | 224             |  |  |
|  | SBOR      | 212                             | 210                             | -2       | 21.8                     | C                       |                                  |                                     |                         |   |                             | -                   | 88              | -                     | 224             |  |  |
| Crown Way NB Crossover - Out to In     | NBIT      | 1761                            | 1767                            | 6        | 0.9                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | -               | -                     | -               |  |  |
|  | NB O-I    | -                               | -                               | -        | -                        | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | -               | -                     | -               |  |  |
| Crown Way SB Crossover - In to Out     | SBOT      | 1717                            | 1730                            | 13       | 4.9                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | -               | -                     | -               |  |  |
|  | SB I-O    | -                               | -                               | -        | -                        | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | -               | -                     | -               |  |  |
| Roosevelt Blvd & Southampton Rd        | EBL1 (I)  | 86                              | 82                              | -4       | 153.1                    | F                       | 839                              | 63.5                                | E                       | 46.2                                    | D                           | -                   | 167             | -                     | 505             |  |  |
|  | EBL2 (O)  | 78                              | 73                              | -5       | 155.9                    | F                       |                                  |                                     |                         |   |                             | -                   | 167             | -                     | 505             |  |  |
|  | EBT       | 386                             | 385                             | -1       | 42.6                     | D                       | 212                              | 199                                 | F                       | 46.2                                    |                             | -                   | 167             | -                     | 505             |  |  |
|  | EBR1 (I)  | 80                              | 83                              | 3        | 43.5                     | D                       |                                  |                                     |                         |   |                             | -                   | 167             | -                     | 505             |  |  |
|  | EBR2 (O)  | 212                             | 213                             | 1        | 42.7                     | D                       | 32                               | 199                                 | F                       | 46.2                                    |                             | -                   | 160             | -                     | 506             |  |  |
|  | WBL1 (I)  | 32                              | 31                              | -1       | 179.2                    | F                       |                                  |                                     |                         |   |                             | -                   | 199             | -                     | 532             |  |  |
|  | WBL2 (O)  | 156                             | 152                             | -4       | 185.9                    | F                       | 281                              | 199                                 | F                       | 46.2                                    |                             | -                   | 199             | -                     | 532             |  |  |
|  | WBT       | 281                             | 280                             | -1       | 48.1                     | D                       |                                  |                                     |                         |   |                             | -                   | 199             | -                     | 532             |  |  |
|  | WBR1 (I)  | 201                             | 203                             | 1        | 50.2                     | D                       | 128                              | 199                                 | F                       | 46.2                                    |                             | -                   | 199             | -                     | 532             |  |  |
|  | WBR2 (O)  | 128                             | 127                             | -1       | 48.3                     | D                       |                                  |                                     |                         |   |                             | -                   | 194             | -                     | 532             |  |  |
|  | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | NBIU2 (O)                        | 149                                 | D                       | 46.2                                    |                             | -                   | 149             | -                     | 358             |  |  |
|  | NBIU2 (O) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 149             | -                     | 358             |  |  |
|  | NBIL      | 248                             | 248                             | 0        | 86.8                     | F                       | 1762                             | 37.0                                | D                       | 46.2                                    |                             | -                   | 149             | -                     | 358             |  |  |
|  | NBIT      | 1514                            | 1515                            | 1        | 28.9                     | C                       |                                  |                                     |                         |   |                             | -                   | 149             | -                     | 358             |  |  |
|  | NBOT      | 1079                            | 1090                            | 11       | 28.7                     | C                       | 1344                             | 30.4                                | C                       | 46.2                                    |                             | -                   | 96              | -                     | 351             |  |  |
|  | NBOR      | 245                             | 245                             | 0        | 37.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 96              | -                     | 351             |  |  |
|  | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | 1229                             | 48.5                                | D                       | 46.2                                    |                             | 720                 | 180             | -                     | 426             |  |  |
|  | SIU2 (O)  | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 720                 | 180             | -                     | 426             |  |  |
|  | SBIL      | 261                             | 260                             | -1       | 110.1                    | F                       | 1429                             | 41.0                                | D                       | 46.2                                    |                             | 720                 | 180             | -                     | 426             |  |  |
|  | SBIT      | 984                             | 969                             | -15      | 32.0                     | C                       |                                  |                                     |                         |   |                             | -                   | 180             | -                     | 426             |  |  |
|  | SBOT      | 1349                            | 1357                            | 9        | 41.1                     | D                       | 1429                             | 41.0                                | D                       | 46.2                                    |                             | -                   | 150             | -                     | 601             |  |  |
|  | SBOR      | 65                              | 66                              | 1        | 39.5                     | D                       |                                  |                                     |                         |   |                             | -                   | 150             | -                     | 601             |  |  |
| Woodhaven WB Ramp to NB Blvd           | NBIT      | 1497                            | 1498                            | 1        | 23.7                     | C                       | 22.3                             | C                                   | D                       | 31.1                                    | D                           | -                   | 67              | -                     | 259             |  |  |
|  | NBOT      | 709                             | 714                             | 5        | 19.3                     | C                       |                                  |                                     |                         |   |                             | -                   | 33              | -                     | 172             |  |  |
|  | WBR (I)   | 393                             | 391                             | -2       | 49.3                     | E                       | 48.7                             | E                                   | D                       |   |                             | -                   | 345             | -                     | 1345            |  |  |
|  | WBR (O)   | 717                             | 713                             | -4       | 48.4                     | E                       |                                  |                                     |                         |   |                             | -                   | 345             | -                     | 1345            |  |  |

### Bustleton Ave to Harbison Ave - 2025 No Build PM

| Intersection                        | Movement                                | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |     |
|-------------------------------------|---|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|-----|
| Roosevelt Blvd & Bustleton Ave      | EBL1 (I)                                | 12                              | 11                              | -1       | 10.7                     | B                       | 831                              | 5.9                                 | A                       | 25.8                                    | C                           | -                   | 35              | -                     | 227             |     |
|                                     | EBL2 (O)                                | 56                              | 53                              | -4       | 25.0                     | C                       |                                  |                                     |                         |   |                             | -                   | 35              | -                     | 227             |     |
|                                     | EBT                                     | 466                             | 483                             | 16       | 5.2                      | A                       |                                  |                                     |                         |   |                             | -                   | 7               | -                     | 141             |     |
|                                     | EBR1 (I)                                | 163                             | 161                             | -2       | 3.5                      | A                       |                                  |                                     |                         |   |                             | -                   | 7               | -                     | 141             |     |
|                                     | EBR2 (O)                                | 105                             | 108                             | 3        | 2.9                      | A                       |                                  |                                     |                         |   |                             | -                   | 7               | -                     | 141             |     |
|                                     | WBL1 (I)                                | 6                               | 6                               | 1        | 7.5                      | A                       |                                  |                                     |                         |   |                             | 65                  | 56              | -                     | 191             |     |
|                                     | WBL2 (O)                                | 10                              | 9                               | -1       | 7.8                      | A                       |                                  |                                     |                         |   |                             | 65                  | 56              | -                     | 191             |     |
|                                     | WBT                                     | 488                             | 464                             | -25      | 3.1                      | A                       |                                  | 772                                 | 3.8                     | A                                       |                             | -                   | 7               | -                     | 143             |     |
|                                     | WBR1 (I)                                | 85                              | 85                              | 0        | 5.4                      | A                       |                                  |                                     |                         |   |                             | -                   | 7               | -                     | 143             |     |
|                                     | WBR2 (O)                                | 180                             | 188                             | 8        | 4.6                      | A                       |                                  |                                     |                         |   |                             | -                   | 7               | -                     | 143             |     |
|                                     | NBIL1                                   | 333                             | 329                             | -5       | 70.3                     | E                       |                                  | 2099                                | 32.1                    | C                                       |                             | 200                 | 94              | -                     | 406             |     |
|                                     | NBIT                                    | 1780                            | 1770                            | -10      | 25.0                     | C                       |                                  |                                     |                         |   |                             | -                   | 72              | -                     | 482             |     |
|                                     | NBOT                                    | 1639                            | 1575                            | -64      | 55.1                     | E                       |                                  |                                     |                         |   |                             | -                   | 241             | -                     | 1077            |     |
|                                     | SBIL                                    | 196                             | 193                             | -3       | 47.2                     | D                       |                                  |                                     |                         |   |                             | -                   | 44              | -                     | 349             |     |
|                                     | SBIT                                    | 2032                            | 2028                            | -4       | 17.3                     | B                       |                                  |                                     |                         |   |                             | -                   | 109             | -                     | 365             |     |
|                                     | SBOT                                    | 935                             | 934                             | -1       | 11.6                     | B                       |                                  |                                     |                         |   |                             | -                   | 26              | -                     | 296             |     |
| Bustleton Ave & Robbins Street      | EBL                                     | 109                             | 105                             | -4       | 1.0                      | A                       | 623                              | 0.3                                 | A                       | 32.8                                    | C                           | -                   | 1               | -                     | 71              |     |
|                                     | EBT                                     | 507                             | 502                             | -5       | 0.2                      | A                       |                                  |                                     |                         |   |                             | -                   | 1               | -                     | 77              |     |
|                                     | WBT                                     | 686                             | 689                             | 3        | 50.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 149             | -                     | 443             |     |
|                                     | WBR                                     | 40                              | 42                              | 2        | 58.2                     | E                       |                                  |                                     |                         |   |                             | -                   | 149             | -                     | 443             |     |
|                                     | NBL                                     | 46                              | 48                              | 2        | 41.6                     | D                       |                                  |                                     |                         |   |                             | -                   | 208             | -                     | 1045            |     |
|                                     | NBT                                     | 629                             | 611                             | -18      | 41.8                     | D                       |                                  |                                     |                         |   |                             | -                   | 208             | -                     | 1045            |     |
| Bustleton Ave & Levick Street       | NBR                                     | 23                              | 23                              | 0        | 44.3                     | D                       | 683                              | 41.9                                | D                       | 32.8                                    | C                           | -                   | 208             | -                     | 1045            |     |
|                                     | EBT                                     | 706                             | 708                             | 1        | 41.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 95              | -                     | 409             |     |
|                                     | EBR                                     | 44                              | 45                              | 1        | 51.5                     | D                       |                                  |                                     |                         |   |                             | -                   | 95              | -                     | 409             |     |
|                                     | WBL                                     | 56                              | 60                              | 4        | 3.4                      | A                       |                                  |                                     |                         |   |                             | -                   | 8               | -                     | 113             |     |
|                                     | WBT                                     | 729                             | 718                             | -11      | 2.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 8               | -                     | 113             |     |
|                                     | SBL                                     | 50                              | 45                              | -5       | 16.3                     | B                       | 788                              | 2.1                                 | A                       | 20.2                                    | C                           | -                   | 37              | -                     | 244             |     |
| Roosevelt Blvd & Levick St          | SBT                                     | 476                             | 464                             | -12      | 15.3                     | B                       |                                  |                                     |                         |   |                             | -                   | 37              | -                     | 244             |     |
|                                     | SBR                                     | 68                              | 69                              | 1        | 15.7                     | B                       |                                  |                                     |                         |   |                             | -                   | 37              | -                     | 244             |     |
|                                     | WBL1 (I)                                | 556                             | 553                             | -2       | 37.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 262             | -                     | 996             |     |
|                                     | WBL2 (O)                                | 624                             | 602                             | -22      | 81.1                     | F                       | 1213                             | 61.5                                | E                       | 45.4                                    | D                           | -                   | 250             | -                     | 981             |     |
|                                     | WBR (I)                                 | 20                              | 20                              | 0        | 92.4                     | F                       |                                  |                                     |                         |   |                             | -                   | 250             | -                     | 981             |     |
|                                     | WBR (O)                                 | 39                              | 38                              | 0        | 78.4                     | E                       |                                  |                                     |                         |   |                             | -                   | 256             | -                     | 990             |     |
| Elbridge St NB Crossover Out to In  | NBIT                                    | 1876                            | 1868                            | -8       | 20.8                     | C                       |                                  |                                     |                         |   |                             | -                   | 88              | -                     | 476             |     |
|                                     | NBOT                                    | 1876                            | 1807                            | -69      | 36.1                     | D                       |                                  |                                     |                         |   |                             | -                   | 230             | -                     | 583             |     |
|                                     | SBIT                                    | 1673                            | 1667                            | -6       | 80.0                     | F                       |                                  |                                     |                         |   |                             | -                   | 294             | -                     | 574             |     |
|                                     | SBOT                                    | 905                             | 897                             | -8       | 29.3                     | C                       |                                  |                                     |                         |   |                             | -                   | 55              | -                     | 239             |     |
|                                     | NBIT                                    | 1896                            | 1874                            | -22      | 24.3                     | -                       |                                  |                                     |                         |   |                             | -                   | 220             | -                     | 701             |     |
|                                     | NB O-I                                  | 76                              | 57                              | -19      | 398.8                    | -                       |                                  |                                     |                         |   |                             | -                   | 135             | 234                   | 660             |     |
| Hellerman St SB Crossover Out to In | SBIT                                    | 1621                            | 1614                            | -7       | 20.2                     | -                       | 1818                             | 36.1                                | D                       | 20.2                                    | D                           | -                   | 62              | -                     | 611             |     |
|                                     | SB O-I                                  | 52                              | 53                              | 1        | 95.6                     | -                       |                                  |                                     |                         |   |                             | -                   | 140             | 34                    | 274             |     |
|                                     | Bradford Terrace NB Crossover In to out | NBOT                            | 1772                            | 1689     | -84                      | 45.6                    | -                                |                                     |                         |   |                             | -                   | 248             | -                     | 1172            |     |
|                                     | NB I-O                                  | 150                             | 134                             | -15      | 496.5                    | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 135             | 485                   | 608             | 622 |

### Bustleton Ave to Harbison Ave - 2025 No Build PM

| Intersection                  | Movement | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |  |  |
|-------------------------------|----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|--|--|
| Roosevelt Blvd & Harbison Ave | EBL1 (I) | 24                              | 25                              | 1        | 10.9                     | B                       | 919                              | 28.3                                | C                       | 33.9                                    | C                           | -                   | 42              | -                     | 199             |  |  |
|                               | EBL2 (O) | 116                             | 120                             | 4        | 11.6                     | B                       |                                  |                                     |                         |   |                             | -                   | 42              | -                     | 199             |  |  |
|                               | EBT      | 758                             | 756                             | -2       | 31.6                     | C                       |                                  |                                     |                         |   |                             | -                   | 59              | -                     | 229             |  |  |
|                               | EBR1 (I) | 3                               | 4                               | 0        | 26.9                     | C                       |                                  |                                     |                         |   |                             | -                   | 59              | -                     | 229             |  |  |
|                               | EBR2 (O) | 12                              | 11                              | -1       | 29.9                     | C                       |                                  |                                     |                         |   |                             | -                   | 59              | -                     | 229             |  |  |
|                               | WBL1 (I) | 47                              | 46                              | -1       | 8.9                      | A                       | 1482                             | 48.8                                | D                       |   |                             | -                   | 7               | -                     | 146             |  |  |
|                               | WBL2 (O) | 110                             | 105                             | -5       | 8.7                      | A                       |                                  |                                     |                         |   |                             | -                   | 7               | -                     | 146             |  |  |
|                               | WBT      | 800                             | 784                             | -16      | 45.5                     | D                       |                                  |                                     |                         |   |                             | -                   | 234             | -                     | 670             |  |  |
|                               | WBR1 (I) | 198                             | 203                             | 5        | 81.2                     | F                       |                                  |                                     |                         |   |                             | -                   | 234             | -                     | 670             |  |  |
|                               | WBR2 (O) | 336                             | 340                             | 5        | 54.8                     | D                       |                                  |                                     |                         |   |                             | -                   | 13              | -                     | 479             |  |  |
|                               | NBIL     | 30                              | 33                              | 3        | 36.9                     | D                       | 1736                             | 34.7                                | C                       |   |                             | -                   | N/A             | -                     | N/A             |  |  |
|                               | NBIT     | 1717                            | 1736                            | 18       | 34.7                     | C                       |                                  |                                     |                         |   |                             | -                   | 166             | -                     | 703             |  |  |
|                               | NBOT     | 1779                            | 1692                            | -87      | 36.1                     | D                       | 1842                             | 34.0                                | C                       |   |                             | -                   | 185             | -                     | 335             |  |  |
|                               | NBOR     | 143                             | 138                             | -5       | 8.2                      | A                       |                                  |                                     |                         |   |                             | -                   | 33              | -                     | 330             |  |  |
|                               | SBIL     | 465                             | 449                             | -17      | 106.0                    | F                       | 2019                             | 34.7                                | C                       |   |                             | -                   | 282             | -                     | 459             |  |  |
|                               | SBIT     | 1570                            | 1570                            | 0        | 14.3                     | B                       |                                  |                                     |                         |   |                             | -                   | 42              | -                     | 279             |  |  |
|                               | SBOT     | 954                             | 959                             | 4        | 13.4                     | B                       | 979                              | 13.4                                | B                       |   |                             | -                   | 37              | -                     | 235             |  |  |
|                               | SBOR     | 12                              | 11                              | -1       | 11.4                     | B                       |                                  |                                     |                         |   |                             | -                   | 37              | -                     | 235             |  |  |

### Bustleton Ave to Harbison Ave - 2025 PM Mitigation

| Intersection                                      | Movement | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |  |
|---|----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|--|
| Roosevelt Blvd & Bustleton Ave                    | EBL1 (I) | 12                              | 11                              | -1       | 7.8                      | A                       | 836                              | 4.1                                 | A                       | 19.1                                    | B                           | -                   | 27              | -                     | 178             |  |
|   | EBL2 (O) | 56                              | 55                              | -1       | 10.8                     | B                       |                                  |                                     |                         |   |                             | -                   | 27              | -                     | 178             |  |
|   | EBT      | 466                             | 485                             | 19       | 3.8                      | A                       |                                  |                                     |                         |   |                             | -                   | 6               | -                     | 137             |  |
|   | EBr1 (I) | 163                             | 161                             | -2       | 3.2                      | A                       |                                  |                                     |                         |   |                             | -                   | 6               | -                     | 137             |  |
|   | EBr2 (O) | 105                             | 108                             | 3        | 3.2                      | A                       |                                  |                                     |                         |   |                             | -                   | 6               | -                     | 137             |  |
|   | WBL1 (I) | 6                               | 6                               | 1        | 6.7                      | A                       |                                  |                                     |                         |   |                             | 65                  | 56              | -                     | 190             |  |
|   | WBL2 (O) | 10                              | 9                               | -1       | 5.9                      | A                       |                                  |                                     |                         |   |                             | 65                  | 56              | -                     | 190             |  |
|   | WBT      | 488                             | 464                             | -25      | 3.0                      | A                       |                                  | 774                                 | 3.2                     | A                                       |                             | -                   | 6               | -                     | 110             |  |
|   | WBR1 (I) | 85                              | 86                              | 1        | 3.7                      | A                       |                                  |                                     |                         |   |                             | -                   | 6               | -                     | 110             |  |
|   | WBR2 (O) | 180                             | 189                             | 9        | 3.1                      | A                       |                                  |                                     |                         |   |                             | -                   | 6               | -                     | 110             |  |
|   | NBIL1    | 333                             | 330                             | -4       | 69.2                     | E                       | 2106                             | 29.5                                | C                       | 200                                     | B                           | 200                 | 93              | -                     | 409             |  |
|   | NBIT     | 1780                            | 1776                            | -3       | 22.1                     | C                       |                                  |                                     |                         |   |                             | -                   | 61              | -                     | 370             |  |
|   | NBOT     | 1639                            | 1631                            | -8       | 25.7                     | C                       | 1632                             | 25.7                                | C                       | -                                       | -                           | 92                  | -               | 606                   |                 |  |
|   | SBIL     | 196                             | 193                             | -3       | 36.5                     | D                       | 2219                             | 18.7                                | B                       | -                                       | B                           | -                   | 33              | -                     | 310             |  |
|   | SBIT     | 2032                            | 2026                            | -7       | 17.0                     | B                       |                                  |                                     |                         |   |                             | -                   | 107             | -                     | 368             |  |
|   | SBOT     | 935                             | 937                             | 2        | 11.6                     | B                       | 940                              | 11.6                                | B                       | -                                       | -                           | 26                  | -               | 298                   |                 |  |
| Bustleton Ave & Robbins Street                    | EBL      | 109                             | 107                             | -2       | 0.8                      | A                       | 627                              | 0.3                                 | A                       | 27.5                                    | C                           | -                   | 0               | -                     | 81              |  |
|   | EBT      | 507                             | 504                             | -3       | 0.2                      | A                       | -                                | 0                                   | -                       |   |                             | 88                  |                 |                       |                 |  |
|   | WBT      | 686                             | 690                             | 4        | 48.2                     | D                       | 752                              | 48.6                                | D                       |   |                             | -                   | 139             | -                     | 441             |  |
|   | WBR      | 40                              | 42                              | 3        | 55.6                     | E                       | -                                | 139                                 | -                       |   |                             | 441                 |                 |                       |                 |  |
|   | NBL      | 46                              | 49                              | 3        | 30.1                     | C                       | 694                              | 29.2                                | C                       | -                                       | C                           | -                   | 77              | -                     | 574             |  |
|   | NBT      | 629                             | 621                             | -8       | 29.1                     | C                       |                                  |                                     |                         |   |                             | -                   | 77              | -                     | 574             |  |
|   | NBR      | 23                              | 23                              | 0        | 30.7                     | C                       |                                  |                                     |                         |   |                             | -                   | 77              | -                     | 574             |  |
| Bustleton Ave & Levick Street                     | EBT      | 706                             | 708                             | 2        | 40.3                     | D                       | 753                              | 40.9                                | D                       | 19.5                                    | B                           | -                   | 92              | -                     | 400             |  |
|   | EBR      | 44                              | 45                              | 1        | 50.7                     | D                       | -                                | 92                                  | -                       |   |                             | 400                 |                 |                       |                 |  |
|   | WBL      | 56                              | 59                              | 3        | 4.1                      | A                       | 789                              | 2.2                                 | A                       |   |                             | -                   | 8               | -                     | 117             |  |
|   | WBT      | 729                             | 720                             | -9       | 2.0                      | A                       | 586                              | 15.0                                | B                       | -                                       | B                           | -                   | 8               | -                     | 117             |  |
|   | SBL      | 50                              | 46                              | -4       | 14.6                     | B                       |                                  |                                     |                         |   |                             | -                   | 37              | -                     | 249             |  |
|   | SBT      | 476                             | 470                             | -6       | 15.0                     | B                       |                                  |                                     |                         |   |                             | -                   | 37              | -                     | 249             |  |
|   | SBR      | 68                              | 70                              | 2        | 15.1                     | B                       |                                  |                                     |                         |   |                             | -                   | 37              | -                     | 249             |  |
| Roosevelt Blvd & Levick St                        | WBL1 (I) | 556                             | 553                             | -2       | 37.1                     | D                       | 1222                             | 54.1                                | D                       | 41.7                                    | D                           | -                   | 211             | -                     | 953             |  |
|   | WBL2 (O) | 624                             | 610                             | -14      | 68.5                     | E                       |                                  |                                     |                         |   |                             | -                   | 199             | -                     | 939             |  |
|   | WBR (I)  | 20                              | 20                              | 0        | 66.1                     | F                       |                                  |                                     |                         |   |                             | -                   | 199             | -                     | 939             |  |
|   | WBR (O)  | 39                              | 39                              | 0        | 62.1                     | E                       |                                  |                                     |                         |   |                             | -                   | 205             | -                     | 947             |  |
|   | NBIT     | 1876                            | 1881                            | 5        | 15.1                     | B                       | 1881                             | 15.1                                | B                       |   |                             | -                   | 65              | -                     | 472             |  |
|   | NBOT     | 1876                            | 1882                            | 6        | 18.9                     | B                       | 1893                             | 18.9                                | B                       |   |                             | -                   | 118             | -                     | 577             |  |
|   | SBIT     | 1673                            | 1662                            | -11      | 95.2                     | F                       | 1662                             | 95.2                                | F                       |   |                             | -                   | 353             | -                     | 962             |  |
|   | SBOT     | 905                             | 901                             | -4       | 29.4                     | C                       | 903                              | 29.4                                | C                       |   |                             | -                   | 55              | -                     | 254             |  |
| Elbridge St NB Crossover Out to In                | NBIT     | 1896                            | 1902                            | 5        | 2.1                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 58              |  |
| Hellerman St SB Crossover Out to In               | NB O-I   | 76                              | 77                              | 1        | 10.6                     | -                       | -                                | -                                   | -                       | -                                       | -                           | 135                 | 4               | 103                   | 117             |  |
| Relocated Bradford Terrace NB Crossover In to out | SBIT     | 1621                            | 1620                            | -1       | 2.9                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 5               | -                     | 201             |  |
|   | SB O-I   | 52                              | 53                              | 1        | 16.1                     | -                       | -                                | -                                   | -                       | -                                       | -                           | 140                 | 5               | 79                    | 105             |  |
|   | NBOT     | 1999                            | 2014                            | 15       | 1.1                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 8               |  |
|   | NB I-O   | 150                             | 155                             | 6        | 18.8                     | -                       | -                                | -                                   | -                       | -                                       | -                           | 135                 | 17              | 174                   | 192             |  |

### Bustleton Ave to Harbison Ave - 2025 PM Mitigation

| Intersection                  | Movement | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |  |  |
|-------------------------------|----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|--|--|
| Roosevelt Blvd & Harbison Ave | EBL1 (I) | 24                              | 25                              | 1        | 11.6                     | B                       | 919                              | 28.3                                | C                       | 31.9                                    | C                           | -                   | 40              | -                     | 194             |  |  |
|                               | EBL2 (O) | 116                             | 120                             | 4        | 11.3                     | B                       |                                  |                                     |                         |   |                             | -                   | 40              | -                     | 194             |  |  |
|                               | EBT      | 758                             | 755                             | -3       | 31.6                     | C                       |                                  |                                     |                         |   |                             | -                   | 59              | -                     | 224             |  |  |
|                               | EBR1 (I) | 3                               | 4                               | 0        | 26.7                     | C                       |                                  |                                     |                         |   |                             | -                   | 59              | -                     | 224             |  |  |
|                               | EBR2 (O) | 12                              | 11                              | -1       | 31.1                     | C                       |                                  |                                     |                         |   |                             | -                   | 59              | -                     | 224             |  |  |
|                               | WBL1 (I) | 47                              | 47                              | -1       | 9.3                      | A                       | 1484                             | 54.4                                | D                       |   |                             | -                   | 8               | -                     | 146             |  |  |
|                               | WBL2 (O) | 110                             | 105                             | -5       | 8.5                      | A                       |                                  |                                     |                         |   |                             | -                   | 8               | -                     | 146             |  |  |
|                               | WBT      | 800                             | 786                             | -14      | 48.5                     | D                       |                                  |                                     |                         |   |                             | -                   | 273             | -                     | 681             |  |  |
|                               | WBR1 (I) | 198                             | 204                             | 5        | 92.4                     | F                       |                                  |                                     |                         |   |                             | -                   | 273             | -                     | 681             |  |  |
|                               | WBR2 (O) | 336                             | 339                             | 3        | 66.0                     | E                       |                                  |                                     |                         |   |                             | -                   | 25              | -                     | 491             |  |  |
|                               | NBIL     | 30                              | 34                              | 4        | 39.0                     | D                       | 1928                             | 34.9                                | C                       |   |                             | -                   | 127             | -                     | 544             |  |  |
|                               | NBIT     | 1943                            | 1928                            | -15      | 34.9                     | C                       |                                  |                                     |                         |   |                             | -                   | 127             | -                     | 544             |  |  |
|                               | NBOT     | 1629                            | 1626                            | -3       | 34.6                     | C                       |                                  |                                     |                         |   |                             | -                   | 168             | -                     | 327             |  |  |
|                               | NBOR     | 143                             | 142                             | -2       | 7.4                      | A                       |                                  |                                     |                         |   |                             | -                   | 28              | -                     | 324             |  |  |
|                               | SBIL     | 465                             | 452                             | -13      | 83.9                     | F                       | 2022                             | 25.2                                | C                       |   |                             | -                   | 209             | -                     | 458             |  |  |
|                               | SBIT     | 1570                            | 1570                            | -1       | 8.3                      | A                       |                                  |                                     |                         |   |                             | -                   | 22              | -                     | 235             |  |  |
|                               | SBOT     | 954                             | 960                             | 5        | 7.7                      | A                       |                                  |                                     |                         |   |                             | -                   | 20              | -                     | 224             |  |  |
|                               | SBOR     | 12                              | 12                              | -1       | 6.8                      | A                       |                                  |                                     |                         |   |                             | -                   | 20              | -                     | 224             |  |  |

### Tyson Ave to Ryan Ave - 2025 No Build PM

| Intersection                         | Movement | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |  |  |
|--------------------------------------|----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|--|--|
| Roosevelt Blvd & Tyson Ave           | EBL1 (I) | 23                              | 25                              | 2        | 6.8                      | A                       | 684                              | 36.8                                | D                       | 29.3                                    | C                           | -                   | 58              | -                     | 199             |  |  |
|                                      | EBL2 (O) | 92                              | 90                              | -2       | 7.1                      | A                       |                                  |                                     |                         |   |                             | -                   | 58              | -                     | 199             |  |  |
|                                      | EBT      | 545                             | 549                             | 4        | 42.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 83              | -                     | 533             |  |  |
|                                      | EBR1 (I) | 14                              | 14                              | 0        | 41.1                     | D                       |                                  |                                     |                         |   |                             | -                   | 83              | -                     | 533             |  |  |
|                                      | EBR2 (O) | 6                               | 7                               | 1        | 45.6                     | D                       |                                  |                                     |                         |   |                             | -                   | 83              | -                     | 533             |  |  |
|                                      | WBL1 (I) | 119                             | 123                             | 4        | 9.9                      | A                       | 986                              | 33.6                                | C                       |   |                             | -                   | 21              | -                     | 184             |  |  |
|                                      | WBL2 (O) | 111                             | 107                             | -4       | 8.5                      | A                       |                                  |                                     |                         |   |                             | -                   | 21              | -                     | 184             |  |  |
|                                      | WBT      | 607                             | 608                             | 0        | 42.1                     | D                       |                                  |                                     |                         |   |                             | -                   | 92              | -                     | 392             |  |  |
|                                      | WBR1 (I) | 86                              | 88                              | 2        | 35.8                     | D                       |                                  |                                     |                         |   |                             | -                   | 92              | -                     | 392             |  |  |
|                                      | WBR2 (O) | 58                              | 61                              | 3        | 38.0                     | D                       |                                  |                                     |                         |   |                             | -                   | 92              | -                     | 392             |  |  |
|                                      | NBIL1    | 92                              | 85                              | -7       | 28.1                     | C                       | 1932                             | 24.7                                | C                       |   |                             | -                   | 78              | -                     | 387             |  |  |
|                                      | NBIT     | 1848                            | 1847                            | -1       | 24.6                     | C                       |                                  |                                     |                         |   |                             | -                   | 78              | -                     | 387             |  |  |
|                                      | NBOT     | 1696                            | 1696                            | 0        | 29.3                     | C                       | 1912                             | 29.9                                | C                       |   |                             | 460                 | 139             | -                     | 621             |  |  |
|                                      | NBOR     | 211                             | 204                             | -7       | 35.2                     | D                       |                                  |                                     |                         |   |                             | 460                 | 139             | -                     | 621             |  |  |
|                                      | SBIL     | 270                             | 247                             | -23      | 146.7                    | F                       | 2149                             | 32.5                                | C                       |   |                             | 790                 | 200             | -                     | 313             |  |  |
|                                      | SBIT     | 1902                            | 1902                            | 0        | 17.7                     | B                       |                                  |                                     |                         |   |                             | 790                 | 200             | -                     | 313             |  |  |
|                                      | SBOT     | 863                             | 860                             | -3       | 20.0                     | B                       | 941                              | 20.2                                | C                       |   |                             | -                   | 49              | -                     | 340             |  |  |
|                                      | SBOR     | 65                              | 67                              | 2        | 22.9                     | C                       |                                  |                                     |                         |   |                             | -                   | 49              | -                     | 340             |  |  |
| Princeton Ave SB Crossover Out to In | SBIT     | 1882                            | 1865                            | -17      | 13.8                     | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 101             | -                     | 410             |  |  |
|                                      | SB O-I   | 290                             | 291                             | 1        | 16.8                     | -                       | -                                | -                                   | -                       | -                                       | -                           | 290                 | 25              | 242                   | 293             |  |  |
| Roosevelt Blvd & Friendship St Ped   | NBIT     | 1957                            | 1938                            | -19      | 4.3                      | A                       | 1938                             | 4.3                                 | A                       | 5.8                                     | A                           | -                   | 7               | -                     | 404             |  |  |
|                                      | NBOT     | 1720                            | 1709                            | -11      | 4.5                      | A                       | 1721                             | 4.5                                 | A                       |   |                             | -                   | 10              | -                     | 565             |  |  |
|                                      | SBIT     | 1882                            | 1885                            | 3        | 10.3                     | B                       | 1885                             | 10.3                                | B                       |   |                             | -                   | 1               | -                     | 68              |  |  |
|                                      | SBOT     | 1221                            | 1226                            | 5        | 2.9                      | A                       | 1243                             | 2.9                                 | A                       |   |                             | -                   | 8               | -                     | 158             |  |  |
|                                      | SBOR     | 4                               | 3                               | -1       | 4.1                      | A                       | -                                | 10                                  | -                       |   |                             | 171                 |                 |                       |                 |  |  |
| St Vincent St NB Crossover In to Out | NBOT     | 1670                            | 1665                            | -5       | 1.3                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 95              |  |  |
|                                      | NB I-O   | 179                             | 175                             | -4       | 0.8                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 80                  | 0               | 0                     | 0               |  |  |
| Roosevelt Blvd & Cottman Ave         | EBL      | 286                             | 284                             | -2       | 14.9                     | B                       | 1164                             | 32.1                                | C                       | 27.8                                    | C                           | -                   | 19              | -                     | 187             |  |  |
|                                      | EBT      | 739                             | 728                             | -11      | 36.3                     | D                       |                                  |                                     |                         |   |                             | -                   | 115             | -                     | 449             |  |  |
|                                      | EBR      | 138                             | 144                             | 7        | 44.6                     | D                       |                                  |                                     |                         |   |                             | -                   | 116             | -                     | 449             |  |  |
|                                      | WBL      | 275                             | 277                             | 2        | 14.0                     | B                       | 966                              | 26.2                                | C                       |   |                             | -                   | 13              | -                     | 200             |  |  |
|                                      | WBT      | 630                             | 622                             | -8       | 30.8                     | C                       |                                  |                                     |                         |   |                             | -                   | 67              | -                     | 309             |  |  |
|                                      | WBR      | 57                              | 60                              | 3        | 35.3                     | D                       |                                  |                                     |                         |   |                             | -                   | 67              | -                     | 309             |  |  |
|                                      | NBL      | 448                             | 451                             | 4        | 36.1                     | D                       | 1873                             | 27.6                                | C                       |   |                             | -                   | 105             | -                     | 514             |  |  |
|                                      | NBT      | 1236                            | 1244                            | 8        | 24.8                     | C                       |                                  |                                     |                         |   |                             | -                   | 105             | -                     | 514             |  |  |
|                                      | NBR      | 165                             | 166                             | 1        | 24.6                     | C                       |                                  |                                     |                         |   |                             | -                   | 105             | -                     | 514             |  |  |
|                                      | SBL      | 274                             | 276                             | 2        | 24.2                     | C                       |                                  |                                     |                         |   |                             | -                   | 71              | -                     | 424             |  |  |
|                                      | SBT      | 812                             | 806                             | -7       | 23.7                     | C                       | 1209                             | 25.1                                | C                       |   |                             | -                   | 71              | -                     | 424             |  |  |
|                                      | SBR      | 113                             | 113                             | 0        | 37.2                     | D                       |                                  |                                     |                         |   |                             | -                   | 71              | -                     | 424             |  |  |
| Blegh Ave SB Crossover In to Out     | SBOT     | 1033                            | 1029                            | -4       | 4.3                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 0               |  |  |
|                                      | SB I-O   | 166                             | 167                             | 0        | 4.9                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 265                 | 0               | 0                     | 0               |  |  |
| Faunce St SB Crossover Out to In     | SBIT     | 1825                            | 1826                            | 1        | 1.3                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 6               |  |  |
|                                      | SB O-I   | 223                             | 227                             | 4        | 19.4                     | -                       | -                                | -                                   | -                       | -                                       | -                           | 165                 | 25              | 267                   | 318             |  |  |
| Roosevelt Blvd & Faunce St Ped       | EBR      | 0                               | 0                               | 0        | 0.0                      | A                       | 0                                | 0.0                                 | A                       | 21.7                                    | C                           | -                   | 0               | -                     | 0               |  |  |
|                                      | NBIT     | 1778                            | 1782                            | 4        | 20.6                     | C                       | 3162                             | 19.0                                | B                       |   |                             | -                   | 44              | -                     | 453             |  |  |
|                                      | NBOT     | 1370                            | 1368                            | -2       | 17.0                     | B                       | -                                | 39                                  | -                       |   |                             | 385                 |                 |                       |                 |  |  |
|                                      | SBIT     | 1825                            | 1826                            | 1        | 25.2                     | C                       | 3073                             | 24.5                                | C                       |   |                             | -                   | 86              | -                     | 576             |  |  |
|                                      | SBOT     | 1224                            | 1232                            | 8        | 23.3                     | C                       |                                  |                                     |                         |   |                             | -                   | 82              | -                     | 604             |  |  |
| Revere St NB Crossover Out to In     | SBR      | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 96              | -                     | 635             |  |  |
|                                      | NBIT     | 1778                            | 1782                            | 4        | 0.7                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 1               | -                     | 41              |  |  |
|                                      | NB O-I   | 207                             | 210                             | 3        | 7.6                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 140                 | 8               | 161                   | 220             |  |  |
|                                      | EBL1 (I) | 41                              | 41                              | 0        | 44.5                     | D                       |                                  |                                     |                         |   |                             | -                   | 83              | -                     | 432             |  |  |
|                                      | EBL2 (O) | 37                              | 37                              | -1       | 44.7                     | D                       |                                  |                                     |                         |   |                             | -                   | 83              | -                     | 432             |  |  |

### Tyson Ave to Ryan Ave - 2025 No Build PM

| Intersection                            | Movement  | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |  |  |
|---|-----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|--|--|
| Roosevelt Blvd & Borbeck Ave - Ryan Ave | EBT       | 284                             | 284                             | 1        | 40.5                     | D                       | 395                              | 41.3                                | D                       | 44.7                                    | D                           | -                   | 83              | -                     | 432             |  |  |
|   | EBR1 (I)  | 24                              | 25                              | 1        | 39.7                     | D                       |                                  |                                     |                         |   |                             | -                   | 83              | -                     | 432             |  |  |
|   | EBR2 (O)  | 8                               | 8                               | 0        | 43.5                     | D                       | 405                              | 42.5                                | D                       |   |                             | -                   | 83              | -                     | 432             |  |  |
|   | WBL1 (I)  | 43                              | 44                              | 1        | 46.2                     | D                       |                                  |                                     |                         |   |                             | -                   | 77              | -                     | 376             |  |  |
|   | WBL2 (O)  | 65                              | 68                              | 3        | 49.5                     | D                       | 1965                             | 67.6                                | E                       |   |                             | -                   | 77              | -                     | 376             |  |  |
|   | WBT       | 235                             | 232                             | -4       | 41.8                     | D                       |                                  |                                     |                         |   |                             | -                   | 77              | -                     | 376             |  |  |
|   | WBR1 (I)  | 48                              | 48                              | 0        | 35.0                     | C                       | 1874                             | 38.2                                | D                       |   |                             | -                   | 77              | -                     | 376             |  |  |
|   | WBR2 (O)  | 14                              | 14                              | -1       | 33.7                     | C                       |                                  |                                     |                         |   |                             | -                   | 80              | -                     | 381             |  |  |
|   | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | 1102                             | 32.5                                | C                       |   |                             | 340                 | 511             | -                     | 973             |  |  |
|   | NBIU2 (O) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 340                 | 511             | -                     | 973             |  |  |
|   | NBIL      | 191                             | 168                             | -23      | 409.0                    | F                       | 1219                             | 30.4                                | C                       |   |                             | 340                 | 511             | -                     | 973             |  |  |
|   | NBIT      | 1794                            | 1797                            | 3        | 35.7                     | D                       |                                  |                                     |                         |   |                             | -                   | 376             | -                     | 962             |  |  |
|   | NBOT      | 1047                            | 1044                            | -3       | 32.7                     | C                       | 1874                             | 38.2                                | D                       |   |                             | -                   | 94              | -                     | 510             |  |  |
|   | NBOR      | 46                              | 46                              | 0        | 29.7                     | C                       |                                  |                                     |                         |   |                             | -                   | 94              | -                     | 510             |  |  |
|   | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | 1219                             | 30.4                                | C                       |   |                             | 315                 | 55              | -                     | 223             |  |  |
|   | SIU2 (O)  | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 315                 | 55              | -                     | 223             |  |  |
|   | SBIL      | 122                             | 120                             | -3       | 85.7                     | F                       | 1102                             | 32.5                                | C                       |   |                             | 315                 | 55              | -                     | 223             |  |  |
|   | SBIT      | 1758                            | 1755                            | -4       | 34.9                     | C                       |                                  |                                     |                         |   |                             | -                   | 111             | -                     | 448             |  |  |
|   | SBOT      | 1151                            | 1156                            | 5        | 30.4                     | C                       | 1874                             | 38.2                                | D                       |   |                             | -                   | 107             | -                     | 383             |  |  |
|   | SBOR      | 46                              | 47                              | 1        | 30.2                     | C                       |                                  |                                     |                         |   |                             | -                   | 107             | -                     | 383             |  |  |
| Ryan Ave SB Crossover In to Out         | SBOT      | 1135                            | 1139                            | 4        | 3.0                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 73              |  |  |
|   | SB I-O    | 62                              | 63                              | 0        | 6.2                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 200                 | 1               | 40                    | 55              |  |  |

### Tyson Ave to Ryan Ave - 2025 PM Mitigation

| Intersection                         | Movement | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |  |  |
|--------------------------------------|----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|--|--|
| Roosevelt Blvd & Tyson Ave           | EBL1 (I) | 23                              | 25                              | 2        | 6.3                      | A                       | 685                              | 37.0                                | D                       | 31.3                                    | C                           | -                   | 56              | -                     | 199             |  |  |
|                                      | EBL2 (O) | 92                              | 90                              | -2       | 7.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 56              | -                     | 199             |  |  |
|                                      | EBT      | 545                             | 549                             | 4        | 43.1                     | D                       |                                  |                                     |                         |   |                             | -                   | 82              | -                     | 517             |  |  |
|                                      | EBR1 (I) | 14                              | 14                              | -1       | 41.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 82              | -                     | 517             |  |  |
|                                      | EBR2 (O) | 6                               | 7                               | 1        | 44.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 82              | -                     | 517             |  |  |
|                                      | WBL1 (I) | 119                             | 123                             | 4        | 9.4                      | A                       | 986                              | 33.3                                | C                       |   |                             | -                   | 20              | -                     | 186             |  |  |
|                                      | WBL2 (O) | 111                             | 107                             | -4       | 8.2                      | A                       |                                  |                                     |                         |   |                             | -                   | 20              | -                     | 186             |  |  |
|                                      | WBT      | 607                             | 607                             | 0        | 41.7                     | D                       |                                  |                                     |                         |   |                             | -                   | 92              | -                     | 394             |  |  |
|                                      | WBR1 (I) | 86                              | 88                              | 2        | 35.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 92              | -                     | 394             |  |  |
|                                      | WBR2 (O) | 58                              | 61                              | 3        | 38.3                     | D                       |                                  |                                     |                         |   |                             | -                   | 92              | -                     | 394             |  |  |
|                                      | NBIL1    | 92                              | 85                              | -7       | 27.0                     | C                       | 1932                             | 24.6                                | C                       |   |                             | -                   | 78              | -                     | 387             |  |  |
|                                      | NBIT     | 1848                            | 1847                            | -1       | 24.5                     | C                       |                                  |                                     |                         |   |                             | -                   | 78              | -                     | 387             |  |  |
|                                      | NBOT     | 1696                            | 1696                            | 0        | 29.4                     | C                       | 1912                             | 30.0                                | C                       |   |                             | 460                 | 140             | -                     | 620             |  |  |
|                                      | NBOR     | 211                             | 204                             | -7       | 35.5                     | D                       |                                  |                                     |                         |   |                             | 460                 | 140             | -                     | 620             |  |  |
|                                      | SBIL     | 270                             | 249                             | -20      | 183.6                    | F                       | 2151                             | 40.6                                | D                       |   |                             | 790                 | 269             | -                     | 455             |  |  |
|                                      | SBIT     | 1902                            | 1901                            | -1       | 21.8                     | C                       |                                  |                                     |                         |   |                             | 790                 | 269             | -                     | 455             |  |  |
|                                      | SBOT     | 863                             | 853                             | -10      | 19.3                     | B                       | 934                              | 19.4                                | B                       |   |                             | -                   | 47              | -                     | 320             |  |  |
|                                      | SBOR     | 65                              | 67                              | 2        | 21.3                     | C                       |                                  |                                     |                         |   |                             | -                   | 47              | -                     | 320             |  |  |
| Princeton Ave SB Crossover Out to In | SBIT     | 1882                            | 1874                            | -8       | 5.5                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 38              | -                     | 240             |  |  |
|                                      | SB O-I   | 290                             | 289                             | -1       | 8.8                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 290                 | 13              | 188                   | 225             |  |  |
| Roosevelt Blvd & Friendship St Ped   | NBIT     | 1957                            | 1938                            | -19      | 4.3                      | A                       | 1938                             | 4.3                                 | A                       | 5.8                                     | A                           | -                   | 7               | -                     | 402             |  |  |
|                                      | NBOT     | 1720                            | 1709                            | -11      | 4.6                      | A                       | 1721                             | 4.6                                 | A                       |   |                             | -                   | 10              | -                     | 562             |  |  |
|                                      | SBIT     | 1882                            | 1885                            | 3        | 10.3                     | B                       | 1885                             | 10.3                                | B                       |   |                             | -                   | 1               | -                     | 61              |  |  |
|                                      | SBOT     | 1221                            | 1218                            | -3       | 3.0                      | A                       | 1235                             | 3.0                                 | A                       |   |                             | -                   | 8               | -                     | 150             |  |  |
|                                      | SBOR     | 4                               | 3                               | -1       | 6.9                      | A                       | -                                | 10                                  | -                       |   |                             | 162                 |                 |                       |                 |  |  |
| St Vincent St NB Crossover In to Out | NBOT     | 1670                            | 1665                            | -5       | 1.3                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 105             |  |  |
|                                      | NB I-O   | 179                             | 175                             | -4       | 0.8                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 80                  | 0               | 0                     | 0               |  |  |
| Roosevelt Blvd & Cottman Ave         | EBL      | 286                             | 284                             | -2       | 15.5                     | B                       | 1162                             | 33.0                                | C                       | 28.0                                    | C                           | -                   | 20              | -                     | 194             |  |  |
|                                      | EBT      | 739                             | 727                             | -12      | 37.1                     | D                       |                                  |                                     |                         |   |                             | -                   | 119             | -                     | 473             |  |  |
|                                      | EBR      | 138                             | 144                             | 7        | 46.4                     | D                       |                                  |                                     |                         |   |                             | -                   | 119             | -                     | 474             |  |  |
|                                      | WBL      | 275                             | 277                             | 2        | 13.9                     | B                       | 964                              | 26.8                                | C                       |   |                             | -                   | 13              | -                     | 204             |  |  |
|                                      | WBT      | 630                             | 621                             | -9       | 31.6                     | C                       |                                  |                                     |                         |   |                             | -                   | 72              | -                     | 330             |  |  |
|                                      | WBR      | 57                              | 60                              | 3        | 36.1                     | D                       |                                  |                                     |                         |   |                             | -                   | 72              | -                     | 330             |  |  |
|                                      | NBL      | 448                             | 452                             | 4        | 36.2                     | D                       | 1874                             | 27.6                                | C                       |   |                             | -                   | 105             | -                     | 512             |  |  |
|                                      | NBT      | 1236                            | 1244                            | 8        | 24.8                     | C                       |                                  |                                     |                         |   |                             | -                   | 105             | -                     | 512             |  |  |
|                                      | NBR      | 165                             | 166                             | 1        | 24.7                     | C                       |                                  |                                     |                         |   |                             | -                   | 105             | -                     | 512             |  |  |
|                                      | SBL      | 274                             | 273                             | -1       | 24.4                     | C                       |                                  |                                     |                         |   |                             | -                   | 68              | -                     | 398             |  |  |
|                                      | SBT      | 812                             | 798                             | -14      | 23.0                     | C                       | 1198                             | 24.6                                | C                       |   |                             | -                   | 68              | -                     | 398             |  |  |
|                                      | SBR      | 113                             | 112                             | -1       | 36.4                     | D                       |                                  |                                     |                         |   |                             | -                   | 68              | -                     | 398             |  |  |
| Blegh Ave SB Crossover In to Out     | SBOT     | 1033                            | 1020                            | -13      | 4.1                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 0               |  |  |
|                                      | SB I-O   | 166                             | 167                             | 0        | 4.8                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 265                 | 0               | 0                     | 0               |  |  |
| Faunce St SB Crossover Out to In     | SBIT     | 1825                            | 1826                            | 1        | 1.3                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 6               |  |  |
|                                      | SB O-I   | 223                             | 226                             | 3        | 18.7                     | -                       | -                                | -                                   | -                       | -                                       | -                           | 200                 | 23              | 255                   | 291             |  |  |
| Roosevelt Blvd & Faunce St Ped       | EBR      | 0                               | 0                               | 0        | 0.0                      | A                       | 0                                | 0.0                                 | A                       | 18.1                                    | B                           | -                   | 0               | -                     | 0               |  |  |
|                                      | NBIT     | 2001                            | 1991                            | -10      | 9.1                      | A                       | 3082                             | 11.7                                | B                       |   |                             | -                   | 37              | -                     | 236             |  |  |
|                                      | NBOT     | 1067                            | 1080                            | 13       | 16.4                     | B                       | -                                | 33                                  | -                       |   |                             | 318                 |                 |                       |                 |  |  |
|                                      | SBIT     | 1825                            | 1826                            | 1        | 25.3                     | C                       | 3073                             | 24.6                                | C                       |   |                             | -                   | 87              | -                     | 576             |  |  |
|                                      | SBOT     | 1224                            | 1232                            | 8        | 23.6                     | C                       |                                  |                                     |                         |   |                             | -                   | 82              | -                     | 611             |  |  |
| Revere St NB Crossover Out to In     | SBR      | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 96              | -                     | 642             |  |  |
|                                      | NBIT     | 1778                            | 1786                            | 8        | 12.0                     | -                       | -                                | -                                   | -                       | -                                       | -                           | 210                 | 7               | 158                   | 178             |  |  |
|                                      | NB O-I   | 207                             | 209                             | 2        | 13.4                     | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | -               | -                     | -               |  |  |

### Tyson Ave to Ryan Ave - 2025 PM Mitigation

| Intersection                            | Movement  | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |  |  |
|---|-----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|--|--|
| Roosevelt Blvd & Borbeck Ave - Ryan Ave | EBL1 (I)  | 41                              | 41                              | 0        | 44.5                     | D                       | 395                              | 41.3                                | D                       | 45.6                                    | D                           | -                   | 83              | -                     | 432             |  |  |
|   | EBL2 (O)  | 37                              | 37                              | -1       | 44.6                     | D                       |                                  |                                     |                         |   |                             | -                   | 83              | -                     | 432             |  |  |
|   | EBT       | 284                             | 284                             | 1        | 40.5                     | D                       |                                  |                                     |                         |   |                             | -                   | 83              | -                     | 432             |  |  |
|   | EBR1 (I)  | 24                              | 25                              | 1        | 39.7                     | D                       |                                  |                                     |                         |   |                             | -                   | 83              | -                     | 432             |  |  |
|   | EBR2 (O)  | 8                               | 8                               | 0        | 43.5                     | D                       |                                  |                                     |                         |   |                             | -                   | 83              | -                     | 432             |  |  |
|   | WBL1 (I)  | 43                              | 44                              | 1        | 45.8                     | D                       | 405                              | 42.2                                | D                       |   |                             | -                   | 76              | -                     | 376             |  |  |
|   | WBL2 (O)  | 65                              | 68                              | 3        | 49.2                     | D                       |                                  |                                     |                         |   |                             | -                   | 76              | -                     | 376             |  |  |
|   | WBT       | 235                             | 232                             | -4       | 41.6                     | D                       |                                  |                                     |                         |   |                             | -                   | 76              | -                     | 376             |  |  |
|   | WBR1 (I)  | 48                              | 48                              | 0        | 34.9                     | C                       |                                  |                                     |                         |   |                             | -                   | 76              | -                     | 376             |  |  |
|   | WBR2 (O)  | 14                              | 14                              | -1       | 33.7                     | C                       | 1967                             | 68.2                                | E                       |   |                             | -                   | 79              | -                     | 381             |  |  |
|   | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 340                 | 471             | -                     | 976             |  |  |
|   | NBIU2 (O) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 340                 | 471             | -                     | 976             |  |  |
|   | NBIL      | 191                             | 169                             | -22      | 372.3                    | F                       |                                  |                                     |                         |   |                             | 340                 | 471             | -                     | 976             |  |  |
|   | NBIT      | 1794                            | 1797                            | 4        | 39.5                     | D                       | 1101                             | 37.2                                | D                       |   |                             | -                   | 352             | -                     | 950             |  |  |
|   | NBOT      | 1047                            | 1043                            | -4       | 37.3                     | D                       |                                  |                                     |                         |   |                             | -                   | 111             | -                     | 546             |  |  |
|   | NBOR      | 46                              | 46                              | 0        | 33.9                     | C                       |                                  |                                     |                         |   |                             | -                   | 111             | -                     | 546             |  |  |
|   | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | 1874                             | 38.2                                | D                       |   |                             | -                   | 55              | -                     | 223             |  |  |
|   | SIU2 (O)  | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 55              | -                     | 223             |  |  |
|   | SBIL      | 122                             | 120                             | -3       | 85.7                     | F                       |                                  |                                     |                         |   |                             | -                   | 55              | -                     | 223             |  |  |
|   | SBIT      | 1758                            | 1755                            | -4       | 34.9                     | C                       |                                  |                                     |                         |   |                             | -                   | 111             | -                     | 448             |  |  |
|   | SBOT      | 1151                            | 1156                            | 5        | 30.4                     | C                       | 1219                             | 30.4                                | C                       |   |                             | -                   | 107             | -                     | 383             |  |  |
|   | SBOR      | 46                              | 47                              | 1        | 30.2                     | C                       |                                  |                                     |                         |   |                             | -                   | 107             | -                     | 383             |  |  |
| Ryan Ave SB Crossover In to Out         | SBOT      | 1135                            | 1139                            | 4        | 3.0                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 73              |  |  |
|   | SB I-O    | 62                              | 63                              | 0        | 6.2                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 200                 | 1               | 40                    | 55              |  |  |

### Strahle St to Woodward Ave - 2025 No Build PM

| Intersection                            | Movement  | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |
|---|-----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|
| Roosevelt Blvd & Holmes Ave - Solly Ave | EBL       | -                               | 0                               | -        | 0.0                      | A                       | 34.6                             | C                                   | -                       | 34.6                                    | -                           | 0                   | 0               | 0                     |                 |
|   | EBT       | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | EBR       | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | WBL       | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | WBT       | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | WBR       | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | NBL       | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       | 295             |
|   | NBT       | -                               | 917                             | -        | 23.4                     | C                       |                                  |                                     |                         |   |                             |                     |                 |                       | 295             |
|   | NBR       | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       | 295             |
|   | SBL       | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       | 507             |
|   | SBT       | -                               | 1018                            | -        | 44.8                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                       | 507             |
|   | SBR       | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       | 507             |
| Roosevelt Blvd & Strahle St             | EGL1 (I)  | 190                             | 191                             | 1        | 49.1                     | D                       | 8.6                              | A                                   | -                       | 8.6                                     | -                           | 55                  | 318             | 318                   |                 |
|   | EGL2 (I)  | 56                              | 54                              | -2       | 46.7                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | EGL2 (O)  | 22                              | 21                              | -1       | 46.9                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | WBL       | 32                              | 32                              | 0        | 1.1                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       | 39              |
|   | NBIU2 (O) | 7                               | 8                               | 1        | 54.1                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                       | 220             |
|   | NBIL      | 54                              | 45                              | -9       | 53.2                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                       | 220             |
|   | NBIT      | 1762                            | 1761                            | -1       | 9.1                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       | 220             |
|   | NBOT      | 899                             | 907                             | 8        | 2.7                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       | 94              |
|   | NBOR      | 13                              | 13                              | -1       | 3.2                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       | 55              |
|   | SBIT      | 1847                            | 1821                            | -26      | 4.1                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       | 109             |
|   | SBOT      | 1004                            | 989                             | -15      | 8.4                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       | 111             |
|   | SBOR      | 87                              | 87                              | 0        | 8.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       | 111             |
| Strahle SB Crossover Out to In          | SBIT      | 1663                            | 1638                            | -25      | 6.4                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 18              |
|   | SB O-I    | 184                             | 182                             | -1       | 10.6                     | -                       | -                                | -                                   | -                       | -                                       | -                           | 120                 | 6               | 130                   | 163             |
| Winchester NB Crossover In to Out       | NBOT      | 931                             | 939                             | 9        | 4.6                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 0               |
|   | NB I-O    | 414                             | 415                             | 2        | 9.9                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 145                 | 9               | 196                   | 227             |
| Winchester SB Crossover In to Out       | SBOT      | 1231                            | 1215                            | -16      | 3.1                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 0               |
|   | SB I-O    | 43                              | 45                              | 2        | 10.5                     | -                       | -                                | -                                   | -                       | -                                       | -                           | 150                 | 2               | 68                    | 70              |
| Woodward NB Crossover Out to In         | NBIT      | 1539                            | 1538                            | -1       | 3.8                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 3               |
|   | NB O-I    | 139                             | 140                             | 1        | 4.3                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 130                 | 1               | 75                    | 97              |
| Roosevelt Blvd & Woodward St            | EGL1 (I)  | 35                              | 26                              | -9       | 231.3                    | F                       | 36.4                             | D                                   | -                       | 36.4                                    | -                           | 700                 | 1313            | 1313                  |                 |
|   | EGL2 (O)  | 168                             | 139                             | -29      | 241.8                    | F                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | EBT       | 78                              | 61                              | -17      | 237.0                    | F                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | EGL1 (I)  | 63                              | 55                              | -8       | 233.0                    | F                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | EGL2 (O)  | 18                              | 14                              | -4       | 227.0                    | F                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | WBL1 (I)  | 72                              | 60                              | -12      | 50.1                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                       | 399             |
|   | WBL2 (O)  | 89                              | 77                              | -13      | 54.2                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                       | 399             |
|   | WBT       | 105                             | 94                              | -10      | 35.2                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                       | 399             |
|   | WBR1 (I)  | 11                              | 8                               | -3       | 35.9                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                       | 399             |
|   | WBR2 (O)  | 14                              | 12                              | -2       | 39.2                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                       | 399             |
|   | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       | 260             |
|   | NBIU2 (O) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       | 260             |
|   | NBIT      | 140                             | 139                             | -1       | 96.9                     | F                       |                                  |                                     |                         |   |                             |                     |                 |                       | 260             |
|   | NBOT      | 1538                            | 1541                            | 3        | 20.3                     | C                       |                                  |                                     |                         |   |                             |                     |                 |                       | 384             |
|   | NBOR      | 1093                            | 1100                            | 7        | 17.5                     | B                       |                                  |                                     |                         |   |                             |                     |                 |                       | 339             |
|   | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       | 339             |
|   | SIU2 (O)  | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       | 67              |
|   | SBIL      | 23                              | 25                              | 1        | 56.8                     | E                       |                                  |                                     |                         |   |                             |                     |                 |                       | 67              |
|   | SBIT      | 1572                            | 1571                            | 0        | 27.5                     | C                       |                                  |                                     |                         |   |                             |                     |                 |                       | 352             |
|   | SBOT      | 1115                            | 1117                            | 2        | 28.0                     | C                       |                                  |                                     |                         |   |                             |                     |                 |                       | 398             |
|   | SBOR      | 88                              | 90                              | 2        | 25.7                     | C                       |                                  |                                     |                         |   |                             |                     |                 |                       | 398             |

### Strahle to Woodward - 2025 PM Mitigation

| Intersection                            | Movement  | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |
|---|-----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|
| Roosevelt Blvd & Holmes Ave - Solly Ave | EBL       | -                               | 0                               | -        | 0.0                      | A                       | 34.4                             | C                                   | -                       | 34.4                                    | -                           | 0                   | 0               | 0                     |                 |
|   | EBT       | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | EBR       | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | WBL       | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | WBT       | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | WBR       | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | NBL       | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | NBT       | -                               | 920                             | -        | 23.5                     | C                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | NBR       | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | SBL       | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | SBT       | -                               | 1009                            | -        | 44.3                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | SBR       | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
| Roosevelt Blvd & Strahle St             | EBL1 (I)  | 190                             | 187                             | -3       | 46.5                     | D                       | 8.6                              | A                                   | -                       | 8.6                                     | -                           | 50                  | -               | 286                   |                 |
|   | EBR1 (I)  | 56                              | 50                              | -6       | 49.6                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | EBR2 (O)  | 22                              | 25                              | 3        | 37.9                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | WBR       | 32                              | 32                              | 0        | 0.8                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | NBIU2 (O) | 7                               | 4                               | -3       | 42.6                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | NBIL      | 54                              | 44                              | -10      | 43.8                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | NBIT      | 1762                            | 1763                            | 1        | 9.4                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | NBOT      | 899                             | 913                             | 14       | 2.7                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | NBOR      | 13                              | 12                              | -1       | 4.2                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | SBIT      | 1847                            | 1848                            | 1        | 4.4                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | SBOT      | 1004                            | 980                             | -24      | 8.8                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | SBOR      | 87                              | 96                              | 9        | 9.4                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
| Strahle SB Crossover Out to In          | SBIT      | 1663                            | 1660                            | -3       | 6.2                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 0               |
|   | SB O-I    | 184                             | 189                             | 5        | 12.7                     | -                       | -                                | -                                   | -                       | -                                       | -                           | 155                 | 7               | 132                   | 155             |
| Winchester NB Crossover In to Out       | NBOT      | 931                             | 940                             | 9        | 4.5                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 0                   | -               | 0                     | -               |
|   | NB I-O    | 414                             | 415                             | 1        | 10.7                     | -                       | -                                | -                                   | -                       | -                                       | -                           | 250                 | 9               | 195                   | 238             |
| Winchester SB Crossover In to Out       | SBOT      | 1231                            | 1211                            | -20      | 3.2                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 0                   | -               | 0                     | -               |
|   | SB I-O    | 43                              | 45                              | 2        | 11.3                     | -                       | -                                | -                                   | -                       | -                                       | -                           | 150                 | 2               | 68                    | 73              |
| Woodward NB Crossover Out to In         | NBIT      | 1539                            | 1532                            | -7       | 3.6                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 0                   | -               | 0                     | -               |
|   | NB O-I    | 139                             | 147                             | 8        | 4.5                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 130                 | 1               | 75                    | 121             |
| Roosevelt Blvd & Woodward St            | EBL1 (I)  | 35                              | 33                              | -2       | 317.2                    | F                       | 41.7                             | D                                   | -                       | 41.7                                    | -                           | 915                 | -               | 1423                  |                 |
|   | EBL2 (O)  | 168                             | 170                             | 2        | 334.9                    | F                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | EBT       | 78                              | 64                              | -14      | 336.4                    | F                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | EBR1 (I)  | 63                              | 61                              | -2       | 318.4                    | F                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | EBR2 (O)  | 18                              | 16                              | -2       | 293.3                    | F                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | WBL1 (I)  | 72                              | 75                              | 4        | 45.4                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | WBL2 (O)  | 89                              | 75                              | -14      | 48.1                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | WBT       | 105                             | 116                             | 12       | 34.1                     | C                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | WBR1 (I)  | 11                              | 6                               | -5       | 41.8                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | WBR2 (O)  | 14                              | 15                              | 1        | 44.1                     | D                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | NBIU2 (O) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | NBIT      | 1538                            | 1552                            | 14       | 19.7                     | B                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | NBOT      | 1093                            | 1114                            | 21       | 16.7                     | B                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | NBOR      | 28                              | 25                              | -3       | 14.6                     | B                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | SIU2 (O)  | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | SBIL      | 23                              | 31                              | 8        | 55.6                     | E                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | SBIT      | 1572                            | 1566                            | -6       | 26.8                     | C                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | SBOT      | 1115                            | 1118                            | 3        | 27.3                     | C                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |
|   | SBOR      | 88                              | 90                              | 2        | 21.1                     | C                       |                                  |                                     |                         |   |                             |                     |                 |                       |                 |

### Grant Ave to Bowler St - 2025 No Build PM

| Intersection                               | Movement  | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |  |  |
|--|-----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|--|--|
| Michener St SB<br>Crossover Out to In      | SBIT      | 1647                            | 1644                            | -2       | 1.8                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 3               |  |  |
|  | SB O-I    | 94                              | 77                              | -17      | 14.6                     | -                       | -                                | -                                   | -                       | -                                       | -                           | 100                 | 6               | 116                   | 142             |  |  |
| Michener St NB<br>Crossover Out to In      | NBIT      | 1479                            | 1480                            | 1        | 0.7                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 0               |  |  |
|  | NB O-I    | 69                              | 70                              | 1        | 1.8                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 140                 | 0               | 37                    | 55              |  |  |
| Roosevelt Blvd & Grant Ave                 | EBL1 (I)  | 28                              | 29                              | 2        | 53.9                     | D                       | 1257                             | 41.4                                | D                       | 48.2                                    | D                           | -                   | 20              | -                     | 198             |  |  |
|  | EBL2 (O)  | 106                             | 108                             | 2        | 59.3                     | E                       |                                  |                                     |                         |   |                             | -                   | 20              | -                     | 198             |  |  |
|  | EBT       | 999                             | 993                             | -6       | 39.1                     | D                       |                                  |                                     |                         |   |                             | -                   | 125             | -                     | 531             |  |  |
|  | EBR1 (I)  | 81                              | 83                              | 1        | 40.6                     | D                       |                                  |                                     |                         |   |                             | -                   | 125             | -                     | 531             |  |  |
|  | EBR2 (O)  | 41                              | 43                              | 2        | 43.6                     | D                       |                                  |                                     |                         |   |                             | -                   | 125             | -                     | 531             |  |  |
|  | WBL1 (I)  | 86                              | 84                              | -2       | 236.3                    | F                       | 1538                             | 79.4                                | E                       |   |                             | -                   | 374             | -                     | 852             |  |  |
|  | WBL2 (O)  | 165                             | 159                             | -6       | 244.6                    | F                       |                                  |                                     |                         |   |                             | -                   | 374             | -                     | 852             |  |  |
|  | WBT       | 1095                            | 1075                            | -20      | 49.6                     | D                       |                                  |                                     |                         |   |                             | -                   | 240             | -                     | 779             |  |  |
|  | WBR1 (I)  | 152                             | 155                             | 3        | 45.2                     | D                       |                                  |                                     |                         |   |                             | -                   | 240             | -                     | 779             |  |  |
|  | WBR2 (O)  | 62                              | 64                              | 2        | 46.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 240             | -                     | 779             |  |  |
|  | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | 1547                             | 39.7                                | D                       |   |                             | -                   | 45              | -                     | 218             |  |  |
|  | NBIU2 (O) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 45              | -                     | 218             |  |  |
|  | NBIL      | 164                             | 160                             | -4       | 55.0                     | D                       |                                  |                                     |                         |   |                             | -                   | 45              | -                     | 218             |  |  |
|  | NBIT      | 1384                            | 1387                            | 3        | 37.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 102             | -                     | 379             |  |  |
|  | NBOT      | 885                             | 888                             | 3        | 39.0                     | D                       |                                  |                                     |                         |   |                             | -                   | 107             | -                     | 430             |  |  |
|  | NBOR      | 260                             | 256                             | -4       | 42.4                     | D                       | 1151                             | 39.7                                | D                       |   |                             | -                   | 107             | -                     | 431             |  |  |
|  | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 129             | -                     | 415             |  |  |
|  | SIU2 (O)  | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 129             | -                     | 415             |  |  |
|  | SBIL      | 340                             | 339                             | -1       | 44.1                     | D                       |                                  |                                     |                         |   |                             | -                   | 129             | -                     | 415             |  |  |
|  | SBIT      | 1479                            | 1478                            | -2       | 40.8                     | D                       |                                  |                                     |                         |   |                             | -                   | 129             | -                     | 415             |  |  |
|  | SBOT      | 914                             | 907                             | -7       | 44.2                     | D                       | 991                              | 44.0                                | D                       |   |                             | -                   | 110             | -                     | 414             |  |  |
|  | SBOR      | 86                              | 85                              | -1       | 42.4                     | D                       |                                  |                                     |                         |   |                             | -                   | 110             | -                     | 415             |  |  |
| Fulmer St NB<br>Crossover Out to In        | NBIT      | 1563                            | 1572                            | 8        | 1.7                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 2               |  |  |
|  | NB O-I    | 34                              | 34                              | 0        | 9.9                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 160                 | 2               | 56                    | 67              |  |  |
| Fulmer St SB<br>Crossover Out to In        | SBIT      | 1688                            | 1685                            | -3       | 0.6                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 0               |  |  |
|  | SB O-I    | 132                             | 135                             | 3        | 9.5                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 130                 | 8               | 147                   | 168             |  |  |
| Roosevelt Blvd & Whitman Plaza - Fulmer St | EBR       | 14                              | 14                              | 0        | 0.7                      | A                       | 14                               | 0.7                                 | A                       | 13.5                                    | B                           | -                   | 0               | -                     | 32              |  |  |
|  | WBL       | 209                             | 211                             | 2        | 31.3                     | C                       | -                                | 25                                  | -                       |   |                             | 125                 |                 |                       |                 |  |  |
|  | WBR1 (I)  | 30                              | 29                              | -1       | 31.2                     | C                       | -                                | 25                                  | -                       |   |                             | 125                 |                 |                       |                 |  |  |
|  | WBR2 (O)  | 30                              | 27                              | -2       | 32.5                     | C                       | -                                | 25                                  | -                       |   |                             | 125                 |                 |                       |                 |  |  |
|  | NBIU      | 0                               | 0                               | 0        | 0.0                      | A                       | -                                | 20                                  | -                       |   |                             | 95                  |                 |                       |                 |  |  |
|  | NBIT      | 1597                            | 1607                            | 10       | 6.5                      | A                       | -                                | 20                                  | -                       |   |                             | 95                  |                 |                       |                 |  |  |
|  | NBOT      | 766                             | 772                             | 7        | 11.0                     | B                       | -                                | 27                                  | -                       |   |                             | 283                 |                 |                       |                 |  |  |
|  | NBOR      | 253                             | 254                             | 0        | 11.9                     | B                       | -                                | 23                                  | -                       |   |                             | 283                 |                 |                       |                 |  |  |
|  | SBIU1 (I) | 1                               | 1                               | 0        | 30.4                     | C                       | -                                | 41                                  | -                       |   |                             | 167                 |                 |                       |                 |  |  |
|  | SBIU2 (O) | 3                               | 3                               | 0        | 65.7                     | E                       | 1694                             | 18.9                                | B                       |   |                             | -                   | 41              | -                     | 167             |  |  |
|  | SBIL      | 215                             | 216                             | 2        | 60.7                     | E                       |                                  |                                     |                         |   |                             | -                   | 41              | -                     | 167             |  |  |
|  | SBIT      | 1479                            | 1474                            | -5       | 12.6                     | B                       |                                  |                                     |                         |   |                             | -                   | 35              | -                     | 285             |  |  |
|  | SBOT      | 1116                            | 1113                            | -3       | 13.3                     | B                       | 1117                             | 13.3                                | B                       |   |                             | -                   | 46              | -                     | 306             |  |  |
|  | SBOR      | 3                               | 3                               | 0        | 9.9                      | A                       |                                  |                                     |                         |   |                             | -                   | 46              | -                     | 306             |  |  |

### Grant Ave to Bowler St - 2025 No Build PM

| Intersection                   | Movement  | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |
|--------------------------------|-----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|
| Roosevelt Blvd & Lott Street   | EBL1 (I)  | 97                              | 98                              | 1        | 32.6                     | C                       | 191                              | 32.6                                | C                       | 17.3                                    | B                           | -                   | 23              | -                     | 148             |
|                                | EBR1 (I)  | 81                              | 81                              | -1       | 32.4                     | C                       |                                  |                                     |                         |   |                             | -                   | 23              | -                     | 148             |
|                                | EBR2 (O)  | 13                              | 12                              | -1       | 34.6                     | C                       |                                  |                                     |                         |   |                             | -                   | 23              | -                     | 148             |
|                                | NBIU1 (I) | 1                               | 1                               | 0        | 61.5                     | E                       |                                  |                                     |                         |   |                             | -                   | 51              | -                     | 162             |
|                                | NBIU2 (O) | 6                               | 7                               | 1        | 84.6                     | F                       |                                  |                                     |                         |   |                             | -                   | 51              | -                     | 162             |
|                                | NBIL      | 111                             | 112                             | 1        | 82.0                     | F                       |                                  |                                     |                         |   |                             | -                   | 51              | -                     | 162             |
|                                | NBIT      | 1510                            | 1518                            | 8        | 3.2                      | A                       |                                  |                                     |                         |   |                             | -                   | 4               | -                     | 119             |
|                                | NBOT      | 799                             | 803                             | 4        | 1.8                      | A                       |                                  |                                     |                         |   |                             | -                   | 6               | -                     | 64              |
|                                | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 84              | -                     | 470             |
|                                | SBIT      | 1615                            | 1617                            | 2        | 25.9                     | C                       |                                  |                                     |                         |   |                             | -                   | 84              | -                     | 470             |
|                                | SBOT      | 1101                            | 1099                            | -1       | 25.6                     | C                       |                                  |                                     |                         |   |                             | -                   | 81              | -                     | 504             |
|                                | SBOR      | 35                              | 39                              | 3        | 23.8                     | C                       |                                  |                                     |                         |   |                             | -                   | 81              | -                     | 504             |
| Lott St NB Crossover In to Out | NBOT      | 799                             | 802                             | 4        | 2.4                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 4               | -                     | 113             |
|                                | NB I-O    | 124                             | 125                             | 1        | 6.9                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 150                 | 5               | 94                    | 107             |
| Roosevelt Blvd & Bowler St Ped | EBR       | 0                               | 0                               | 0        | 0.0                      | A                       | 0                                | -                                   | -                       | 6.6                                     | A                           | -                   | 0               | -                     | 0               |
|                                | NBIT      | 1483                            | 1483                            | 0        | 8.2                      | A                       | 1483                             | 8.2                                 | A                       |   |                             | -                   | 22              | -                     | 324             |
|                                | NBOT      | 923                             | 924                             | 1        | 4.9                      | A                       | 931                              | 4.9                                 | A                       |   |                             | -                   | 14              | -                     | 173             |
|                                | SBIT      | 1615                            | 1614                            | -2       | 6.3                      | A                       | 1614                             | 6.3                                 | A                       |   |                             | -                   | 15              | -                     | 335             |
|                                | SBOT      | 1136                            | 1142                            | 6        | 6.3                      | A                       | 1152                             | 6.3                                 | A                       |   |                             | -                   | 19              | -                     | 350             |
| Roosevelt Blvd & Conwell Ave   | SBOR      | 0                               | 0                               | 0        | 0.0                      | A                       | 1483                             | 2.2                                 | A                       | 2.2                                     | A                           | -                   | 19              | -                     | 350             |
|                                | EBL1 (I)  | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |
|                                | EBR1 (I)  | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |
|                                | EBR2 (O)  | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |
|                                | NBIU1 (I) | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |
|                                | NBIU2 (O) | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |
|                                | NBIL      | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |
|                                | NBIT      | -                               | 1483                            | -        | 2.2                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |
|                                | NBOT      | -                               | 925                             | -        | 2.2                      | A                       | 932                              | 2.2                                 | A                       |   |                             | -                   | 0               | -                     | 0               |
|                                | SBIU1 (I) | -                               | 0                               | -        | 0.0                      | A                       | 0                                | -                                   | -                       |   |                             | -                   | 0               | -                     | 0               |
|                                | SBIT      | -                               | 0                               | -        | 0.0                      | A                       | 0                                | -                                   | -                       |   |                             | -                   | 0               | -                     | 0               |
|                                | SBOT      | -                               | 6                               | -        | 0.0                      | A                       | 16                               | 0.0                                 | A                       |   |                             | -                   | 0               | -                     | 0               |
|                                | SBOR      | -                               | 0                               | -        | 0.0                      | A                       | -                                | 0                                   | -                       |   |                             | 0                   |                 |                       |                 |

### Grant Ave to Bowler St - 2025 PM Mitigation

| Intersection                               | Movement  | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |  |  |
|--|-----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|--|--|
| Roosevelt Blvd & Grant Ave                 | EBL1 (I)  | 0                               | 29                              | 29       | 54.2                     | D                       | 1257                             | 41.3                                | D                       | 47.5                                    | D                           | -                   | 20              | -                     | 224             |  |  |
|  | EBL2 (O)  | 0                               | 107                             | 107      | 59.1                     | E                       |                                  |                                     |                         |   |                             | -                   | 20              | -                     | 224             |  |  |
|  | EBT       | 999                             | 993                             | -6       | 39.0                     | D                       |                                  |                                     |                         |   |                             | -                   | 124             | -                     | 533             |  |  |
|  | EBR1 (I)  | 0                               | 83                              | 83       | 40.6                     | D                       |                                  |                                     |                         |   |                             | -                   | 124             | -                     | 533             |  |  |
|  | EBR2 (O)  | 0                               | 43                              | 43       | 43.5                     | D                       |                                  |                                     |                         |   |                             | -                   | 124             | -                     | 533             |  |  |
|  | WBL1 (I)  | 0                               | 83                              | 83       | 242.3                    | F                       | 1541                             | 75.6                                | E                       |   |                             | -                   | 356             | -                     | 828             |  |  |
|  | WBL2 (O)  | 0                               | 158                             | 158      | 251.7                    | F                       |                                  |                                     |                         |   |                             | -                   | 356             | -                     | 828             |  |  |
|  | WBT       | 1095                            | 1078                            | -16      | 44.0                     | D                       |                                  |                                     |                         |   |                             | -                   | 220             | -                     | 764             |  |  |
|  | WBR1 (I)  | 0                               | 156                             | 156      | 40.5                     | D                       |                                  |                                     |                         |   |                             | -                   | 220             | -                     | 764             |  |  |
|  | WBR2 (O)  | 0                               | 64                              | 64       | 41.7                     | D                       |                                  |                                     |                         |   |                             | -                   | 220             | -                     | 764             |  |  |
|  | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | 1547                             | 39.7                                | D                       |   |                             | -                   | 45              | -                     | 218             |  |  |
|  | NBIU2 (O) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 45              | -                     | 218             |  |  |
|  | NBIL      | 0                               | 160                             | 160      | 55.0                     | D                       |                                  |                                     |                         |   |                             | -                   | 45              | -                     | 218             |  |  |
|  | NBIT      | 1479                            | 1387                            | -92      | 37.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 102             | -                     | 379             |  |  |
|  | NBOT      | 0                               | 888                             | 888      | 39.0                     | D                       |                                  |                                     |                         |   |                             | -                   | 107             | -                     | 430             |  |  |
|  | NBOR      | 0                               | 256                             | 256      | 42.3                     | D                       | 1151                             | 39.7                                | D                       |   |                             | -                   | 107             | -                     | 431             |  |  |
|  | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 129             | -                     | 411             |  |  |
|  | SIU2 (O)  | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 129             | -                     | 411             |  |  |
|  | SBIL      | 0                               | 340                             | 340      | 44.4                     | D                       |                                  |                                     |                         |   |                             | -                   | 129             | -                     | 411             |  |  |
|  | SBIT      | 0                               | 1478                            | 1478     | 40.8                     | D                       |                                  |                                     |                         |   |                             | -                   | 129             | -                     | 411             |  |  |
|  | SBOT      | 94                              | 907                             | 813      | 43.8                     | D                       | 991                              | 43.6                                | D                       |   |                             | -                   | 108             | -                     | 372             |  |  |
|  | SBOR      | 1026                            | 85                              | -941     | 41.8                     | D                       |                                  |                                     |                         |   |                             | -                   | 107             | -                     | 373             |  |  |
| Fulmer St NB Crossover Out to In           | NBIT      | 0                               | 1572                            | 1572     | 1.7                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 2               |  |  |
|  | NB O-I    | 0                               | 34                              | 34       | 9.9                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 160                 | 2               | 56                    | 67              |  |  |
| Fulmer St SB Crossover Out to In           | SBIT      | 0                               | 1686                            | 1686     | 0.5                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 0               | -                     | 4               |  |  |
|  | SB O-I    | 0                               | 134                             | 134      | 8.8                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 130                 | 6               | 132                   | 165             |  |  |
| Roosevelt Blvd & Whitman Plaza - Fulmer St | EBR       | 0                               | 14                              | 14       | 0.7                      | A                       | 14                               | 0.7                                 | A                       | 13.5                                    | B                           | -                   | 0               | -                     | 32              |  |  |
|  | WBL       | 0                               | 211                             | 211      | 31.3                     | C                       | -                                | 25                                  | -                       |   |                             | 128                 |                 |                       |                 |  |  |
|  | WBR1 (I)  | 0                               | 29                              | 29       | 30.9                     | C                       | -                                | 25                                  | -                       |   |                             | 128                 |                 |                       |                 |  |  |
|  | WBR2 (O)  | 0                               | 27                              | 27       | 32.6                     | C                       | -                                | 25                                  | -                       |   |                             | 128                 |                 |                       |                 |  |  |
|  | NBIU      | 0                               | 0                               | 0        | 0.0                      | A                       | -                                | 20                                  | -                       |   |                             | 95                  |                 |                       |                 |  |  |
|  | NBIT      | 1563                            | 1608                            | 45       | 6.5                      | A                       | -                                | 20                                  | -                       |   |                             | 95                  |                 |                       |                 |  |  |
|  | NBOT      | 0                               | 773                             | 773      | 10.7                     | B                       | -                                | 26                                  | -                       |   |                             | 276                 |                 |                       |                 |  |  |
|  | NBOR      | 0                               | 254                             | 254      | 11.9                     | B                       | -                                | 23                                  | -                       |   |                             | 277                 |                 |                       |                 |  |  |
|  | SBIU1 (I) | 0                               | 1                               | 1        | 30.6                     | C                       | -                                | 40                                  | -                       |   |                             | 162                 |                 |                       |                 |  |  |
|  | SBIU2 (O) | 0                               | 3                               | 3        | 65.8                     | E                       | 1695                             | 18.8                                | B                       |   |                             | -                   | 40              | -                     | 162             |  |  |
|  | SBIL      | 0                               | 216                             | 216      | 60.6                     | E                       |                                  |                                     |                         |   |                             | -                   | 40              | -                     | 162             |  |  |
|  | SBIT      | 0                               | 1475                            | 1475     | 12.6                     | B                       |                                  |                                     |                         |   |                             | -                   | 35              | -                     | 281             |  |  |
|  | SBOT      | 132                             | 1113                            | 981      | 13.9                     | B                       |                                  |                                     |                         |   |                             | -                   | 49              | -                     | 324             |  |  |
|  | SBOR      | 999                             | 3                               | -996     | 9.7                      | A                       |                                  |                                     |                         |   |                             | -                   | 49              | -                     | 324             |  |  |
| Roosevelt Blvd & Lott Street               | EBL1 (I)  | 0                               | 98                              | 98       | 32.6                     | C                       | 191                              | 32.6                                | C                       | 17.3                                    | B                           | -                   | 23              | -                     | 148             |  |  |
|  | EBR1 (I)  | 0                               | 81                              | 81       | 32.4                     | C                       |                                  |                                     |                         |   |                             | -                   | 23              | -                     | 148             |  |  |
|  | EBR2 (O)  | 0                               | 12                              | 12       | 34.6                     | C                       |                                  |                                     |                         |   |                             | -                   | 23              | -                     | 148             |  |  |
|  | NBIU1 (I) | 0                               | 1                               | 1        | 60.4                     | E                       |                                  |                                     |                         |   |                             | -                   | 51              | -                     | 173             |  |  |
|  | NBIU2 (O) | 0                               | 7                               | 7        | 85.7                     | F                       |                                  |                                     |                         |   |                             | -                   | 51              | -                     | 173             |  |  |
|  | NBIT      | 0                               | 112                             | 112      | 81.6                     | F                       | 810                              | 1.8                                 | A                       |   |                             | -                   | 51              | -                     | 173             |  |  |
|  | NBOT      | 0                               | 1519                            | 1519     | 3.2                      | A                       |                                  |                                     |                         |   |                             | -                   | 4               | -                     | 110             |  |  |
|  | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 6               | -                     | 64              |  |  |
|  | SBIT      | 0                               | 1617                            | 1617     | 25.8                     | C                       | 1617                             | 25.8                                | C                       |   |                             | -                   | 84              | -                     | 470             |  |  |
|  | SBOT      | 0                               | 1099                            | 1099     | 25.5                     | C                       |                                  |                                     |                         |   |                             | -                   | 84              | -                     | 470             |  |  |
|  | SBOR      | 0                               | 39                              | 39       | 23.6                     | C                       |                                  |                                     |                         |   |                             | -                   | 81              | -                     | 503             |  |  |
| Lott St NB Crossover In to Out             | NBOT      | 0                               | 803                             | 803      | 2.4                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | 4               | -                     | 113             |  |  |
|  | NB I-O    | 0                               | 125                             | 125      | 6.9                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 150                 | 5               | 88                    | 103             |  |  |

### Grant Ave to Bowler St - 2025 PM Mitigation

| Intersection                   | Movement  | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |  |  |
|--------------------------------|-----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|--|--|
| Roosevelt Blvd & Bowler St Ped | EBR       | 0                               | 0                               | 0        | 0.0                      | A                       | 0                                | -                                   | -                       | 6.6                                     | A                           | -                   | 0               | -                     | 0               |  |  |
|                                | NBIT      | 1483                            | 1484                            | 1        | 8.2                      | A                       | 1484                             | 8.2                                 | A                       |   |                             | -                   | 22              | -                     | 326             |  |  |
|                                | NBOT      | 0                               | 925                             | 925      | 4.9                      | A                       | 932                              | 4.9                                 | A                       |   |                             | -                   | 14              | -                     | 174             |  |  |
|                                | SBIT      | 0                               | 1614                            | 1614     | 6.3                      | A                       | 1614                             | 6.3                                 | A                       |   |                             | -                   | 15              | -                     | 339             |  |  |
|                                | SBOT      | 0                               | 1142                            | 1142     | 6.4                      | A                       | 1152                             | 6.4                                 | A                       |   |                             | -                   | 19              | -                     | 353             |  |  |
|                                | SBOR      | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 19              | -                     | 353             |  |  |
| Roosevelt Blvd & Conwell Ave   | EBL1 (I)  | -                               | 0                               | -        | 0.0                      | A                       | 0                                | -                                   | -                       | 2.2                                     | A                           | -                   | 0               | -                     | 0               |  |  |
|                                | EBR1 (I)  | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |  |  |
|                                | EBR2 (O)  | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |  |  |
|                                | NBIU1 (I) | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |  |  |
|                                | NBIU2 (O) | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |  |  |
|                                | NBIL      | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |  |  |
|                                | NBIT      | -                               | 1484                            | -        | 2.2                      | A                       | 1484                             | 2.2                                 | A                       |   |                             | -                   | 0               | -                     | 0               |  |  |
|                                | NBOT      | -                               | 925                             | -        | 2.2                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |  |  |
|                                | SBIU1 (I) | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |  |  |
|                                | SBIT      | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |  |  |
|                                | SBOT      | -                               | 6                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |  |  |
|                                | SBOR      | -                               | 0                               | -        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 0               | -                     | 0               |  |  |

### Crown way to Southampton - 2025 No Build PM

| Intersection                           | Movement  | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |     |  |  |
|--|-----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|-----|--|--|
| Roosevelt Blvd & Hornig Rd - Crown Way | EBL1 (I)  | 78                              | 74                              | -4       | 38.5                     | D                       | 250                              | 35.0                                | C                       | 22.4                                    | C                           | -                   | 32              | -                     | 183             |     |  |  |
|  | EBL2 (O)  | 20                              | 13                              | -7       | 40.7                     | D                       |                                  |                                     |                         |   |                             | -                   | 32              | -                     | 183             |     |  |  |
|  | EBT       | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 32              | -                     | 183             |     |  |  |
|  | EBR1 (I)  | 42                              | 43                              | 1        | 33.8                     | C                       |                                  |                                     |                         |   |                             | -                   | 32              | -                     | 183             |     |  |  |
|  | EBR2 (O)  | 119                             | 120                             | 1        | 32.6                     | C                       |                                  |                                     |                         |   |                             | -                   | 32              | -                     | 183             |     |  |  |
|  | WBL1 (I)  | 11                              | 10                              | -1       | 33.5                     | C                       | 164                              | 34.4                                | C                       |   |                             | -                   | 21              | -                     | 161             |     |  |  |
|  | WBL2 (O)  | 74                              | 75                              | 1        | 35.5                     | D                       |                                  |                                     |                         |   |                             | -                   | 21              | -                     | 161             |     |  |  |
|  | WBT       | 1                               | 1                               | 0        | 19.4                     | B                       |                                  |                                     |                         |   |                             | -                   | 21              | -                     | 161             |     |  |  |
|  | WBR1 (I)  | 56                              | 56                              | 0        | 33.3                     | C                       | 1466                             | 23.9                                | C                       |   |                             | -                   | 21              | -                     | 161             |     |  |  |
|  | WBR2 (O)  | 22                              | 22                              | 0        | 34.7                     | C                       |                                  |                                     |                         |   |                             | -                   | 21              | -                     | 161             |     |  |  |
|  | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 320                 | 65              | -                     | 306             |     |  |  |
|  | NBIU2 (O) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 320                 | 65              | -                     | 306             |     |  |  |
|  | NBIL      | 28                              | 30                              | 3        | 61.3                     | E                       |                                  |                                     |                         |   |                             | 320                 | 65              | -                     | 306             |     |  |  |
|  | NBIT      | 1444                            | 1436                            | -8       | 23.1                     | C                       | 1592                             | 31.0                                | C                       |   |                             | -                   | 65              | -                     | 306             |     |  |  |
|  | NBOT      | 1568                            | 1571                            | 3        | 31.1                     | C                       |                                  |                                     |                         |   |                             | -                   | 116             | -                     | 558             |     |  |  |
|  | NBOR      | 15                              | 15                              | 0        | 15.0                     | B                       |                                  |                                     |                         |   |                             | -                   | 134             | -                     | 589             |     |  |  |
|  | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | 1269                             | 11.3                                | B                       |   |                             | -                   | 25              | -                     | 126             |     |  |  |
|  | SIU2 (O)  | 9                               | 9                               | 0        | 64.4                     | E                       |                                  |                                     |                         |   |                             | -                   | 25              | -                     | 126             |     |  |  |
|  | SBIL      | 3                               | 4                               | 0        | 62.3                     | E                       |                                  |                                     |                         |   |                             | -                   | 25              | -                     | 126             |     |  |  |
|  | SBIT      | 1269                            | 1257                            | -12      | 10.8                     | B                       | 1735                             | 18.5                                | B                       |   |                             | -                   | 25              | -                     | 126             |     |  |  |
|  | SBOT      | 1709                            | 1706                            | -2       | 18.6                     | B                       |                                  |                                     |                         |   |                             | -                   | 93              | -                     | 231             |     |  |  |
|  | SBOR      | 24                              | 26                              | 2        | 18.0                     | B                       |                                  |                                     |                         |   |                             | -                   | 93              | -                     | 231             |     |  |  |
| Crown Way NB Crossover - Out to In     | NBIT      | 1578                            | 1569                            | -9       | 0.9                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | -               | -                     | -               |     |  |  |
| Crown Way SB Crossover - In to Out     | NB O-I    | 311                             | 306                             | -5       | 9.9                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 190                 | 12              | 242                   | 278             |     |  |  |
| Roosevelt Blvd & Southampton Rd        | SBOT      | 1678                            | 1683                            | 5        | 5.8                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | -               | -                     | -               |     |  |  |
|  | SB I-O    | 54                              | 51                              | -3       | 28.2                     | -                       | -                                | -                                   | -                       | -                                       | -                           | 220                 | 8               | 98                    | 109             |     |  |  |
|  | EBL1 (I)  | 73                              | 65                              | -8       | 334.6                    | F                       | 583                              | 100.4                               | F                       | 48.6                                    | D                           | -                   | 243             | -                     | 568             |     |  |  |
|  | EBL2 (O)  | 42                              | 41                              | -1       | 346.9                    | F                       |                                  |                                     |                         |   |                             | -                   | 243             | -                     | 568             |     |  |  |
|  | EBT       | 290                             | 285                             | -5       | 48.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 243             | -                     | 568             |     |  |  |
|  | EBR1 (I)  | 51                              | 52                              | 2        | 47.7                     | D                       | 989                              | 58.6                                | E                       |   |                             | -                   | 243             | -                     | 568             |     |  |  |
|  | EBR2 (O)  | 136                             | 139                             | 3        | 45.0                     | D                       |                                  |                                     |                         |   |                             | -                   | 235             | -                     | 568             |     |  |  |
|  | WBL1 (I)  | 76                              | 76                              | 0        | 92.5                     | F                       | 1882                             | 37.9                                | D                       |   |                             | -                   | 169             | -                     | 817             |     |  |  |
|  | WBL2 (O)  | 123                             | 114                             | -9       | 94.9                     | F                       |                                  |                                     |                         |   |                             | -                   | 169             | -                     | 817             |     |  |  |
|  | WBT       | 469                             | 467                             | -2       | 48.8                     | D                       | 1321                             | 27.0                                | C                       |   |                             | -                   | 169             | -                     | 817             |     |  |  |
|  | WBR1 (I)  | 243                             | 242                             | -2       | 52.1                     | D                       |                                  |                                     |                         |   |                             | -                   | 169             | -                     | 817             |     |  |  |
|  | WBR2 (O)  | 88                              | 90                              | 2        | 51.8                     | D                       | 1496                             | 49.8                                | D                       |   |                             | -                   | 167             | -                     | 817             |     |  |  |
|  | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 205             | -                     | 464             |     |  |  |
|  | NBIU2 (O) | 0                               | 0                               | 0        | 0.0                      | A                       | 1621                             | 52.8                                | D                       |   |                             | -                   | 205             | -                     | 464             |     |  |  |
|  | NBIL      | 305                             | 314                             | 9        | 106.2                    | F                       |                                  |                                     |                         |   |                             | -                   | 205             | -                     | 464             |     |  |  |
|  | NBIT      | 1584                            | 1568                            | -16      | 24.2                     | C                       | 1321                             | 27.0                                | C                       |   |                             | -                   | 205             | -                     | 464             |     |  |  |
|  | NBOT      | 1174                            | 1187                            | 14       | 29.9                     | C                       |                                  |                                     |                         |   |                             | -                   | 98              | -                     | 571             |     |  |  |
|  | NBOR      | 124                             | 126                             | 2        | -                        | -                       | 1496                             | 49.8                                | D                       |   |                             | -                   | 98              | -                     | 571             |     |  |  |
|  | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 720             | 208                   | -               | 442 |  |  |
|  | SIU2 (O)  | 0                               | 0                               | 0        | 0.0                      | A                       | 1621                             | 52.8                                | D                       |   |                             | -                   | 720             | 208                   | -               | 442 |  |  |
|  | SBIL      | 297                             | 306                             | 9        | 106.5                    | F                       |                                  |                                     |                         |   |                             | -                   | 720             | 208                   | -               | 442 |  |  |
|  | SBIT      | 1209                            | 1190                            | -19      | 35.3                     | D                       | 1621                             | 52.8                                | D                       |   |                             | -                   | 208             | -                     | 442             |     |  |  |
|  | SBOT      | 1419                            | 1424                            | 5        | 52.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 230             | -                     | 824             |     |  |  |
|  | SBOR      | 196                             | 194                             | -2       | 52.5                     | D                       |                                  |                                     |                         |   |                             | -                   | 230             | -                     | 824             |     |  |  |

### Crown Way to Southampton Rd - 2025 PM Mitigation Option 1

| Intersection                           | Movement  | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |  |  |
|--|-----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|--|--|
| Roosevelt Blvd & Hornig Rd - Crown Way | EBL1 (I)  | 78                              | 74                              | -4       | 38.5                     | D                       | 250                              | 35.0                                | C                       | 22.2                                    | C                           | -                   | 32              | -                     | 183             |  |  |
|  | EBL2 (O)  | 20                              | 13                              | -7       | 40.7                     | D                       |                                  |                                     |                         |   |                             | -                   | 32              | -                     | 183             |  |  |
|  | EBT       | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 32              | -                     | 183             |  |  |
|  | EBR1 (I)  | 42                              | 43                              | 1        | 33.8                     | C                       |                                  |                                     |                         |   |                             | -                   | 32              | -                     | 183             |  |  |
|  | EBR2 (O)  | 119                             | 120                             | 1        | 32.6                     | C                       |                                  |                                     |                         |   |                             | -                   | 32              | -                     | 183             |  |  |
|  | WBL1 (I)  | 11                              | 10                              | -1       | 33.5                     | C                       | 164                              | 34.4                                | C                       |   |                             | -                   | 21              | -                     | 161             |  |  |
|  | WBL2 (O)  | 74                              | 75                              | 1        | 35.5                     | D                       |                                  |                                     |                         |   |                             | -                   | 21              | -                     | 161             |  |  |
|  | WBT       | 1                               | 1                               | 0        | 19.4                     | B                       |                                  |                                     |                         |   |                             | -                   | 21              | -                     | 161             |  |  |
|  | WBR1 (I)  | 56                              | 56                              | 0        | 33.3                     | C                       | 1466                             | 23.7                                | C                       |   |                             | -                   | 21              | -                     | 161             |  |  |
|  | WBR2 (O)  | 22                              | 22                              | 0        | 34.7                     | C                       |                                  |                                     |                         |   |                             | -                   | 21              | -                     | 161             |  |  |
|  | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 320                 | 65              | -                     | 308             |  |  |
|  | NBIU2 (O) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 320                 | 65              | -                     | 308             |  |  |
|  | NBIL      | 28                              | 30                              | 3        | 62.8                     | E                       |                                  |                                     |                         |   |                             | 320                 | 65              | -                     | 308             |  |  |
|  | NBIT      | 1444                            | 1436                            | -8       | 22.9                     | C                       | 1592                             | 30.7                                | C                       |   |                             | -                   | 65              | -                     | 308             |  |  |
|  | NBOT      | 1568                            | 1570                            | 2        | 30.9                     | C                       |                                  |                                     |                         |   |                             | -                   | 113             | -                     | 535             |  |  |
|  | NBOR      | 15                              | 15                              | 0        | 11.6                     | B                       |                                  |                                     |                         |   |                             | -                   | 131             | -                     | 566             |  |  |
|  | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | 1267                             | 10.9                                | B                       |   |                             | -                   | 24              | -                     | 122             |  |  |
|  | SIU2 (O)  | 9                               | 9                               | 0        | 64.6                     | E                       |                                  |                                     |                         |   |                             | -                   | 24              | -                     | 122             |  |  |
|  | SBIL      | 3                               | 4                               | 0        | 55.7                     | E                       |                                  |                                     |                         |   |                             | -                   | 24              | -                     | 122             |  |  |
|  | SBIT      | 1269                            | 1255                            | -14      | 10.4                     | B                       | 1739                             | 18.6                                | B                       |   |                             | -                   | 24              | -                     | 122             |  |  |
|  | SBOT      | 1709                            | 1710                            | 1        | 18.6                     | B                       |                                  |                                     |                         |   |                             | -                   | 94              | -                     | 230             |  |  |
|  | SBOR      | 24                              | 26                              | 2        | 18.6                     | B                       |                                  |                                     |                         |   |                             | -                   | 94              | -                     | 230             |  |  |
| Crown Way NB Crossover - Out to In     | NBIT      | 1578                            | 1569                            | -9       | 1.0                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | -               | -                     | -               |  |  |
| Crown Way SB Crossover - In to Out     | NB O-I    | 311                             | 307                             | -5       | 9.8                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 335                 | 10              | 196                   | 231             |  |  |
| Roosevelt Blvd & Southampton Rd        | SBOT      | 1733                            | 1737                            | 5        | 5.5                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | -               | -                     | -               |  |  |
|  | SB I-O    | -                               | 0                               | 0        | 0.0                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 220                 | 0               | -                     | 0               |  |  |
|  | EBL1 (I)  | 73                              | 63                              | -10      | 336.3                    | F                       | 582                              | 93.7                                | F                       | 49.0                                    | D                           | -                   | 226             | -                     | 533             |  |  |
|  | EBL2 (O)  | 42                              | 40                              | -2       | 345.7                    | F                       |                                  |                                     |                         |   |                             | -                   | 226             | -                     | 533             |  |  |
|  | EBT       | 290                             | 286                             | -4       | 40.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 226             | -                     | 533             |  |  |
|  | EBR1 (I)  | 51                              | 52                              | 2        | 42.2                     | D                       | 990                              | 61.4                                | E                       |   |                             | -                   | 226             | -                     | 533             |  |  |
|  | EBR2 (O)  | 136                             | 140                             | 3        | 39.6                     | D                       |                                  |                                     |                         |   |                             | -                   | 219             | -                     | 533             |  |  |
|  | WBL1 (I)  | 76                              | 76                              | 0        | 102.1                    | F                       | 1880                             | 36.6                                | D                       |   |                             | -                   | 184             | -                     | 861             |  |  |
|  | WBL2 (O)  | 123                             | 115                             | -9       | 103.4                    | F                       |                                  |                                     |                         |   |                             | -                   | 184             | -                     | 861             |  |  |
|  | WBT       | 469                             | 467                             | -2       | 49.8                     | D                       | 1322                             | 26.8                                | C                       |   |                             | -                   | 184             | -                     | 861             |  |  |
|  | WBR1 (I)  | 243                             | 241                             | -2       | 53.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 184             | -                     | 861             |  |  |
|  | WBR2 (O)  | 88                              | 90                              | 2        | 53.9                     | D                       | 1439                             | 46.8                                | D                       |   |                             | -                   | 181             | -                     | 861             |  |  |
|  | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 192             | -                     | 431             |  |  |
|  | NBIU2 (O) | 0                               | 0                               | 0        | 0.0                      | A                       | 1675                             | 59.6                                | E                       |   |                             | -                   | 192             | -                     | 431             |  |  |
|  | NBIL      | 305                             | 312                             | 7        | 97.9                     | F                       |                                  |                                     |                         |   |                             | -                   | 192             | -                     | 431             |  |  |
|  | NBIT      | 1584                            | 1568                            | -16      | 24.4                     | C                       | 1174                             | 29.6                                | C                       |   |                             | -                   | 192             | -                     | 431             |  |  |
|  | NBOT      | 1174                            | 1189                            | 15       | 29.6                     | C                       |                                  |                                     |                         |   |                             | -                   | 99              | -                     | 560             |  |  |
|  | NBOR      | 124                             | 127                             | 2        | -                        | -                       | 124                              | 59.8                                | E                       |   |                             | -                   | 98              | -                     | 561             |  |  |
|  | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 720                 | 184             | -                     | 453             |  |  |
|  | SIU2 (O)  | 0                               | 0                               | 0        | 0.0                      | A                       | 1473                             | 59.8                                | E                       |   |                             | 720                 | 184             | -                     | 453             |  |  |
|  | SBIL      | 297                             | 304                             | 7        | 92.8                     | F                       |                                  |                                     |                         |   |                             | 720                 | 184             | -                     | 453             |  |  |
|  | SBIT      | 1155                            | 1136                            | -19      | 34.5                     | C                       | 1675                             | 59.6                                | E                       |   |                             | -                   | 184             | -                     | 453             |  |  |
|  | SBOT      | 1473                            | 1478                            | 5        | 59.8                     | E                       |                                  |                                     |                         |   |                             | -                   | 283             | -                     | 917             |  |  |
|  | SBOR      | 196                             | 193                             | -3       | 58.3                     | E                       |                                  |                                     |                         |   |                             | -                   | 283             | -                     | 917             |  |  |

## Crown Way to Southampton Rd - 2025 PM Mitigation Option 2

| Intersection                           | Movement  | Peak Hour Input Volume (veh/hr) | VISSIM Movement Volume (veh/hr) | Volume Δ | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach VISSIM Thruput (veh/hr) | Average Delay by Approach (sec/veh) | Approach Equivalent LOS | Average Delay by Intersection (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | 95th Perc. Queue (ft) | Max. Queue (ft) |  |  |  |
|--|-----------|---------------------------------|---------------------------------|----------|--------------------------|-------------------------|----------------------------------|-------------------------------------|-------------------------|---|-----------------------------|---------------------|-----------------|-----------------------|-----------------|--|--|--|
| Roosevelt Blvd & Hornig Rd - Crown Way | EBL1 (I)  | 78                              | 74                              | -4       | 38.5                     | D                       | 250                              | 35.0                                | C                       | 18.8                                    | B                           | -                   | 32              | -                     | 183             |  |  |  |
|  | EBL2 (O)  | 20                              | 13                              | -7       | 40.7                     | D                       |                                  |                                     |                         |   |                             | -                   | 32              | -                     | 183             |  |  |  |
|  | EBT       | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 32              | -                     | 183             |  |  |  |
|  | EBR1 (I)  | 42                              | 43                              | 1        | 33.8                     | C                       |                                  |                                     |                         |   |                             | -                   | 32              | -                     | 183             |  |  |  |
|  | EBR2 (O)  | 119                             | 120                             | 1        | 32.6                     | C                       |                                  |                                     |                         |   |                             | -                   | 32              | -                     | 183             |  |  |  |
|  | WBL1 (I)  | 11                              | 10                              | -1       | 33.5                     | C                       |                                  |                                     |                         |   |                             | -                   | 21              | -                     | 161             |  |  |  |
|  | WBL2 (O)  | 74                              | 75                              | 1        | 35.8                     | D                       |                                  | 164                                 | 34.9                    | C                                       |                             | -                   | 21              | -                     | 161             |  |  |  |
|  | WBT       | 1                               | 1                               | 0        | 19.4                     | B                       |                                  |                                     |                         |   |                             | -                   | 21              | -                     | 161             |  |  |  |
|  | WBR1 (I)  | 56                              | 56                              | 0        | 33.5                     | C                       |                                  |                                     |                         |   |                             | -                   | 21              | -                     | 161             |  |  |  |
|  | WBR2 (O)  | 22                              | 22                              | 0        | 36.4                     | D                       |                                  |                                     |                         |   |                             | -                   | 21              | -                     | 161             |  |  |  |
|  | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | 1784                             | 18.5                                | B                       | 18.8                                    |                             | 320                 | 57              | -                     | 311             |  |  |  |
|  | NBIU2 (O) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 320                 | 57              | -                     | 311             |  |  |  |
|  | NBIL      | 28                              | 30                              | 2        | 60.7                     | E                       |                                  |                                     |                         |   |                             | 320                 | 57              | -                     | 311             |  |  |  |
|  | NBIT      | 1755                            | 1754                            | -1       | 17.8                     | B                       |                                  |                                     |                         |   |                             | -                   | 57              | -                     | 311             |  |  |  |
|  | NBOT      | 1257                            | 1262                            | 5        | 22.8                     | C                       | 1282                             | 22.6                                | C                       |   |                             | -                   | 74              | -                     | 388             |  |  |  |
|  | NBOR      | 15                              | 14                              | -1       | 6.6                      | A                       |                                  |                                     |                         |   |                             | -                   | 91              | -                     | 419             |  |  |  |
|  | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 24              | -                     | 120             |  |  |  |
|  | SIU2 (O)  | 9                               | 9                               | 0        | 69.1                     | E                       | 1265                             | 10.7                                | B                       |   |                             | -                   | 24              | -                     | 120             |  |  |  |
|  | SBIL      | 3                               | 4                               | 0        | 56.1                     | E                       |                                  |                                     |                         |   |                             | -                   | 24              | -                     | 120             |  |  |  |
|  | SBIT      | 1269                            | 1253                            | -16      | 10.2                     | B                       |                                  |                                     |                         |   |                             | -                   | 24              | -                     | 120             |  |  |  |
|  | SBOT      | 1709                            | 1711                            | 2        | 18.3                     | B                       | 1740                             | 18.4                                | B                       |   |                             | -                   | 92              | -                     | 238             |  |  |  |
|  | SBOR      | 24                              | 26                              | 2        | 19.2                     | B                       |                                  |                                     |                         |   |                             | -                   | 92              | -                     | 238             |  |  |  |
| Crown Way NB Crossover - Out to In     | NBIT      | 1889                            | 1885                            | -4       | 0.9                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | -               | -                     | -               |  |  |  |
| Crown Way SB Crossover - In to Out     | NB O-I    | -                               | 0                               | 0        | 0.0                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 190                 | 0               | 196                   | 0               |  |  |  |
|  | SBOT      | 1733                            | 1735                            | 3        | 5.4                      | -                       | -                                | -                                   | -                       | -                                       | -                           | -                   | -               | -                     | -               |  |  |  |
| Roosevelt Blvd & Southampton Rd        | SB I-O    | -                               | 0                               | 0        | 0.0                      | -                       | -                                | -                                   | -                       | -                                       | -                           | 220                 | 0               | -                     | 0               |  |  |  |
|  | EBL1 (I)  | 73                              | 64                              | -9       | 323.4                    | F                       | 580                              | 93.5                                | F                       | 50.6                                    | D                           | -                   | 227             | -                     | 540             |  |  |  |
|  | EBL2 (O)  | 42                              | 40                              | -2       | 329.0                    | F                       |                                  |                                     |                         |   |                             | -                   | 227             | -                     | 540             |  |  |  |
|  | EBT       | 290                             | 285                             | -6       | 43.7                     | D                       |                                  |                                     |                         |   |                             | -                   | 227             | -                     | 540             |  |  |  |
|  | EBR1 (I)  | 51                              | 52                              | 1        | 44.5                     | D                       |                                  |                                     |                         |   |                             | -                   | 227             | -                     | 540             |  |  |  |
|  | EBR2 (O)  | 136                             | 139                             | 2        | 41.3                     | D                       |                                  |                                     |                         |   |                             | -                   | 220             | -                     | 540             |  |  |  |
|  | WBL1 (I)  | 76                              | 75                              | -1       | 98.9                     | F                       |                                  |                                     |                         |   |                             | -                   | 174             | -                     | 812             |  |  |  |
|  | WBL2 (O)  | 123                             | 113                             | -10      | 96.1                     | F                       | 986                              | 58.8                                | E                       |   |                             | -                   | 174             | -                     | 812             |  |  |  |
|  | WBT       | 469                             | 466                             | -3       | 47.9                     | D                       |                                  |                                     |                         |   |                             | -                   | 174             | -                     | 812             |  |  |  |
|  | WBR1 (I)  | 243                             | 241                             | -2       | 52.6                     | D                       |                                  |                                     |                         |   |                             | -                   | 174             | -                     | 812             |  |  |  |
|  | WBR2 (O)  | 88                              | 90                              | 2        | 51.6                     | D                       |                                  |                                     |                         |   |                             | -                   | 171             | -                     | 812             |  |  |  |
|  | NBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       | 1882                             | 44.1                                | D                       | 50.6                                    |                             | -                   | 205             | -                     | 470             |  |  |  |
|  | NBIU2 (O) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | -                   | 205             | -                     | 470             |  |  |  |
|  | NBIL      | 305                             | 312                             | 7        | 97.2                     | F                       |                                  |                                     |                         |   |                             | -                   | 205             | -                     | 470             |  |  |  |
|  | NBIT      | 1584                            | 1570                            | -14      | 33.5                     | C                       |                                  |                                     |                         |   |                             | -                   | 205             | -                     | 470             |  |  |  |
|  | NBOT      | 1174                            | 1181                            | 7        | 27.2                     | C                       | 1313                             | 27.4                                | C                       |   |                             | -                   | 85              | -                     | 523             |  |  |  |
|  | NBOR      | 124                             | 125                             | 1        | 29.0                     | C                       |                                  |                                     |                         |   |                             | -                   | 85              | -                     | 523             |  |  |  |
|  | SBIU1 (I) | 0                               | 0                               | 0        | 0.0                      | A                       |                                  |                                     |                         |   |                             | 720                 | 183             | -                     | 454             |  |  |  |
|  | SIU2 (O)  | 0                               | 0                               | 0        | 0.0                      | A                       | 1440                             | 46.8                                | D                       |   |                             | 720                 | 183             | -                     | 454             |  |  |  |
|  | SBIL      | 297                             | 304                             | 7        | 92.7                     | F                       |                                  |                                     |                         |   |                             | 720                 | 183             | -                     | 454             |  |  |  |
|  | SBIT      | 1155                            | 1136                            | -19      | 34.5                     | C                       |                                  |                                     |                         |   |                             | -                   | 183             | -                     | 454             |  |  |  |
|  | SBOT      | 1473                            | 1478                            | 5        | 60.0                     | E                       | 1674                             | 59.8                                | E                       |   |                             | -                   | 284             | -                     | 931             |  |  |  |
|  | SBOR      | 196                             | 193                             | -3       | 57.9                     | E                       |                                  |                                     |                         |   |                             | -                   | 284             | -                     | 931             |  |  |  |
| Woodhaven WB Ramp to NB Blvd           | NBIT      | 1471                            | 1473                            | 2        | 23.3                     | C                       | -                                | 22.0                                | C                       | 21.9                                    | C                           | -                   | 63              | -                     | 246             |  |  |  |
|  | NBOT      | 699                             | 704                             | 5        | 19.2                     | C                       | -                                | -                                   | -                       |   |                             | -                   | 32              | -                     | 170             |  |  |  |
|  | WBR (I)   | 311                             | 309                             | -3       | 22.6                     | C                       | -                                | 21.8                                | C                       |   |                             | -                   | 64              | -                     | 531             |  |  |  |
|  | WBR (O)   | 573                             | 569                             | -4       | 21.3                     | C                       | -                                | -                                   | -                       |   |                             | -                   | 64              | -                     | 531             |  |  |  |



# Roosevelt Boulevard

**Section 2 – Appendix 8**

**Summary of Assumptions  
and Results for Screen 6.2  
2025 Build Conditions**

**January 2020**

# **Summary of Assumptions and Results for Screen 6.2 / 2025 Build Conditions**

## **BACKGROUND**

This memo summarizes the assumptions made for the updated 2025 Build VISSIM models in Screen 6.2 and the simulation results (including travel time, queue length, LOS and delay comparisons with 2025 No Build Conditions and 2025 Build Conditions from Screen 6 S-BAT scenario). The proposed changes in Screen 6.2 (as shown in **Table 1**) were incorporated in the corridor-wide VISSIM models (with DTA from Screen 6 S-BAT scenario).

## **PROPOSED CHANGES IN SCREEN 6.2**

The corridor-wide VISSIM models (with DTA from Screen 6 S-BAT) were updated to reflect the most recent geometry changes in consultation with the City. For each peak period, one Build alternative was evaluated. **Table 1** summarizes the proposed changes in Screen 6.2. Note that BAT lanes were removed in Screen 6.2 in the following segments to reduce gridlock conditions on the S-curve (a finding from the S-curve Static Modeling Study in June 2019):

- In the northbound direction between Langdon Street and Sumerdale/Adams Avenue; and
- In the southbound direction between Whitaker Avenue and Allengrove Street.

For more details on the improvements at each intersection, refer to **Appendix A**.

In addition, the safety and feasibility of the proposed mainline left-turn phasing changes from leading to lagging with the existing signal timing infrastructure needs to be further analyzed (see page 19 herein for list of affected intersections).

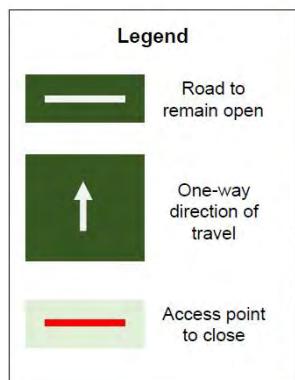
**Table 1:** Proposed Changes in Screen 6.2

| Location  | Proposed Changes in Screen 6.2  |
|---|---|
| Broad Street and West Bristol Street            | <ul style="list-style-type: none"><li>• Eliminate parking on north side of Bristol Street between the Boulevard and Broad Street.</li><li>• Restripe westbound Bristol Street as two lanes with a left-turn lane and a shared left-and-right-turn lane.</li></ul>   |
| Roosevelt Boulevard and 9th Street              | <ul style="list-style-type: none"><li>• Realign 9th Street intersection perpendicular to the Boulevard.</li><li>• Close access points to 10th Street, Wingohocking Street, and Warnock Street (see <b>Figure 1</b>).</li><li>• Optimize signal timing (to accommodate increased side street volumes).</li><li>• Note that changes at 8th Street and 7th Street were not examined in Screen 6.2 as future study is required to determine whether full intersection configuration is needed at these two locations. No major traffic operational issues are expected at 8th Street and 7th Street intersections due to low side street demands.</li></ul> |
| Roosevelt Boulevard and Tower Boulevard         | <ul style="list-style-type: none"><li>• Add westbound right-in and right-out (RIRO) from the hospital.</li><li>• Remove BAT lane in the southbound direction.</li></ul>   |
| Roosevelt Boulevard and Langdon Street          | <ul style="list-style-type: none"><li>• Change northbound left-turn phase from pre-timed to actuated without minimum recall.</li><li>• Change the left-turn phase from leading to lagging.</li><li>• Remove BAT lane in both directions.</li></ul>  |
| Roosevelt Boulevard and Summerdale/Adams Avenue | <ul style="list-style-type: none"><li>• Road diet to one through lane in both eastbound and westbound directions.</li><li>• Keep the right-turn bay toward Adams Ave/Ramona Ave intersection.</li><li>• Keep the northbound dual left-turn lanes.</li><li>• Change the left-turn phase from leading to lagging.</li><li>• Remove BAT lane in both directions.</li></ul>   |
| Roosevelt Boulevard and Allengrove Street       | <ul style="list-style-type: none"><li>• Eliminate Michigan Left Turn and pedestrian crosswalks.</li></ul>   |
| Roosevelt Boulevard and Nabisco Drive           | <ul style="list-style-type: none"><li>• Eliminate Nabisco Drive Access.</li></ul>   |
| Roosevelt Boulevard and Comly Road              | <ul style="list-style-type: none"><li>• Make Comly Road a full intersection.</li><li>• Shift vehicles from/to Nabsico Drive westbound to newly added Comly Road westbound.</li></ul>  |
| Roosevelt Boulevard and Woodhaven Road          | <ul style="list-style-type: none"><li>• Convert Woodhaven Road WB to Roosevelt Boulevard NB ramp terminus to signalized intersection.</li></ul>   |

Roosevelt Boulevard and Southampton Road

- Convert eastbound and westbound approaches to Offset Left Turns.
- Add second southbound left turn lane.
- Add second receiving lane for both eastbound and westbound.

## Logan Triangle Street Grid



**Figure 1:** Logan Triangle Street Grid Concept

## VISSIM MODEL PARAMETERS

The Screen 6.2 2025 Build VISSIM model parameters are presented in **Table 2**.

**Table 2:** VISSIM Simulation Parameters

| Parameter                     | Assumptions   |
|-------------------------------|---|
| VISSIM Version                | Version 9.00 - 11   |
| Total Simulation Time         | Approximately 2 hours 15 minutes (8200 seconds)   |
| Seeding Time                  | 1 hour 15 mins (4500 seconds)   |
| Recorded Simulation Time      | 1 hour (3600 seconds)   |
| Entry Volumes (Inputs)        | DVRPC input from VISUM in 1-hour increments   |
| Heavy Vehicle Percentages     | DVRPC input from VISUM  |
| Arrival Distribution          | Used “Exact Volume”   |
| Link Length                   | No limitation on link length; links should be continuous through areas with consistent lane configuration |
| Link Speed                    | +/- 14 mph from the posted speed limit per field observations   |
| Car Following Model           | Wiedemann 99 and 74 car following models for freeway and arterials, respectively                          |
| Performance Measure Intervals | One-hour increments   |
| Simulation Resolution         | 5-time steps/sec  |
| Initial Random Seed           | 42 (same as Existing Conditions)  |
| Number of Simulation Runs     | 10 as established in Existing Conditions models   |
| Origin-Destination            | DVRPC input from VISUM  |
| Vehicle Types                 | Car, Bus, and Heavy Gross Vehicles (trucks)   |
| Driver Behavior               | No changes from Existing Conditions model   |
| Lane Change Distance          | No changes from Existing Conditions model unless warranted by an improvement                              |

## SIMULATION RESULTS

The Screen 6.2 2025 Build model results for the following Measures of Effectiveness (MOEs) are presented in this section.

- Pedestrian Crossing Time
- Average Travel Time Per User – Automobile
- Average Travel Time Per User – Buses
- LOS and Delay – Automobile
- Queue Length – Automobile

## Pedestrian Crossing Time

Compared to Screen 6 S-BAT, pedestrian operations do not change in Screen 6.2 as no additional changes were made to crosswalk or pedestrian signal timing, except for 9th Street intersection and Allengrove Street intersection.

Due to the intersection realignment at 9th Street, the northern/southern (east/west) crosswalks were shortened to reduce the time required to cross the Boulevard. Pedestrians had to use the adjacent intersections (i.e., Summerdale/Adams Avenue and Pratt Street) to cross the Boulevard due to the elimination of pedestrian crosswalks at Allengrove Street. For more detailed information on pedestrian crossing time information for the entire study area, refer to **Appendix B**.

## Average Travel Time per User - Automobile

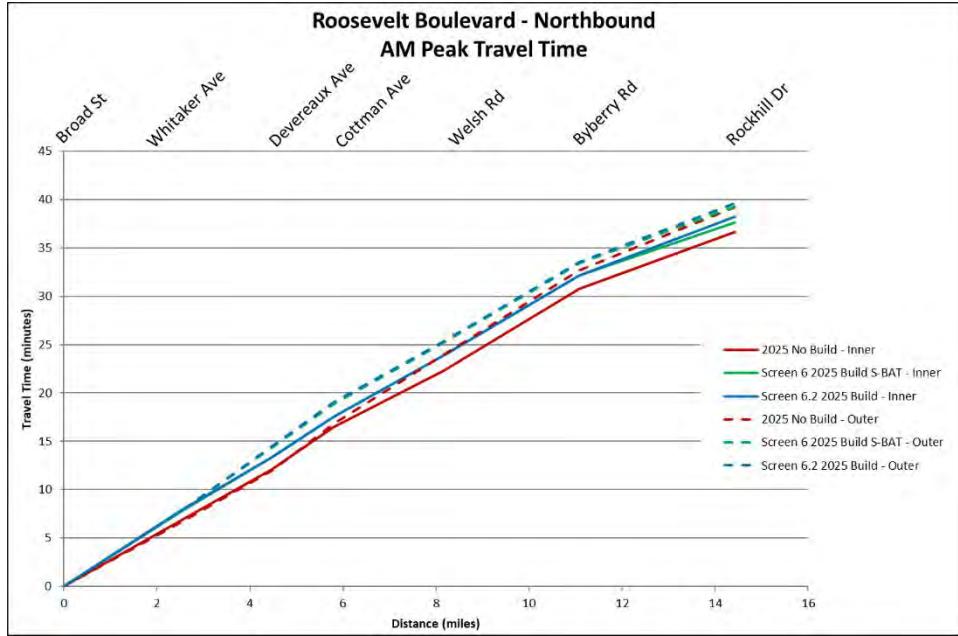
### AM Peak

Travel time for passenger cars and trucks was calculated along Roosevelt Boulevard between Broad Street and Bristol Road (14.4 miles). **Figure 2** presents the AM travel times in the off-peak (or northbound) direction. Travel times for both Screens 6 S-BAT and 6.2 Build scenarios were within 1 minute of the 2025 No Build Conditions. There were minor changes in the travel times as the improvements along the corridor were offset by a combination of factors, such as prioritization of signal progression in the peak (southbound) direction, reduced capacity due to BAT Lanes and bump-outs, and southbound left-turn hold phases (which reduced northbound green time).

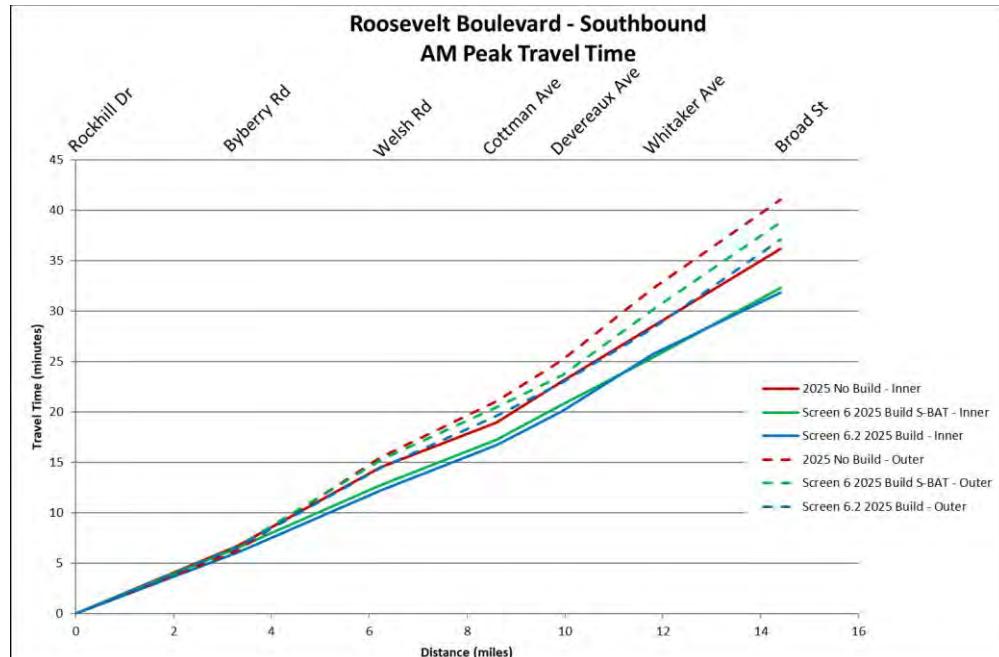
**Figure 3** presents the AM travel times in the peak (or southbound) direction. Travel times for both Screens 6 S-BAT and 6.2 Build scenarios were lower than the 2025 No Build Conditions. While the savings in travel time for the Build scenarios were similar in the inner lanes, time savings in the outer lanes were improved from 2.2 minutes in Screen 6 S-BAT to 3.9 minutes in Screen 6.2 (compared to the 2025 No Build Conditions).

In the peak direction, travel times reduced due to improvements such as:

- Longer cycle length (of 120-seconds) provided more green time for all the movements in a typical peak hour;
- Certain traditional left turns were converted to Michigan Lefts to improve the flow of traffic at intersections with complex geometry;
- Certain turn bays were extended so that left turning vehicles did not block the mainline movements;
- Dual left-turn lane was proposed at several locations (e.g., Broad St & W Bristol St, Roosevelt Blvd & Southampton Rd, etc.) which increased left-turn storage space, reduced queues, and improved the flow and safety of through traffic;
- Locations with mainline separated left-turns were converted to lagging lefts to reduce the all-red clearance time; and
- Traffic signals were re-timed and offsets were adjusted to provide better vehicle progression in the peak direction.



**Figure 2:** Northbound Automobile Travel Time - AM Peak



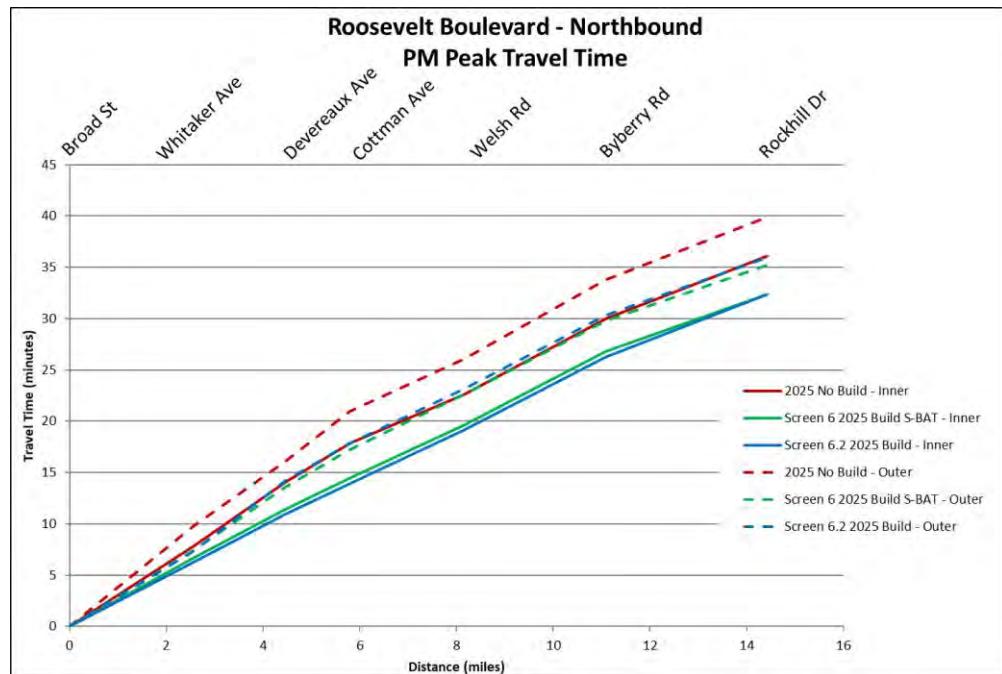
**Figure 3:** Southbound Automobile Travel Time - AM Peak

### PM Peak

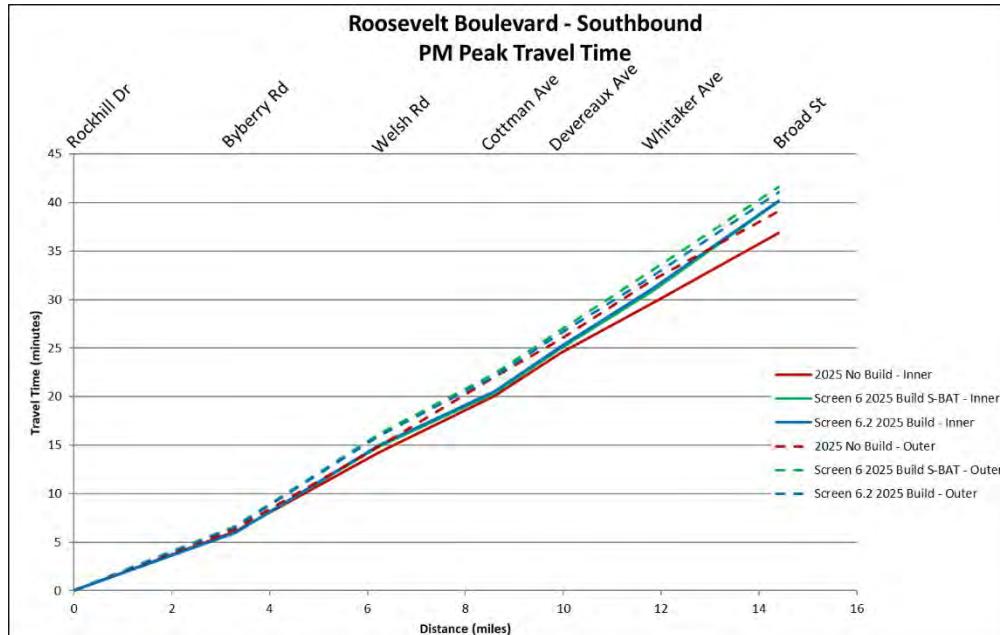
**Figure 4** presents the travel times in the peak (northbound) direction. Travel times for Screen 6.2 Build scenario was similar to Screen 6 S-BAT as no major changes were made in the northbound direction between these two screens. The Build scenarios had lower travel times compared to the 2025 No Build Conditions. The travel times reduced due to the improvements along the corridor (especially between Broad Street and Harbison Avenue) despite the BAT lanes and bump-outs in the outer lanes.

**Figure 5** presents the PM travel times in the off-peak (southbound) direction. Travel times for both Screens 6 S-BAT and 6.2 Build scenarios were slightly higher than the 2025 No Build Conditions. There was an increase of 2-3 minutes in the inner and outer lane travel times compared to No Build due to a combination of factors:

- Prioritization of signal progression in the peak (northbound) direction;
- Northbound left-turn hold phases (which reduced southbound green time);
- Additional Michigan Left signal at B Street in southbound direction; and
- Elimination of the westbound left turn from Adams Avenue to eastbound Whitaker Avenue:
  - This led to 20-30 vph (from Tower Boulevard and other Right-In Right-Out streets south of Bridge Street) making U-turns downstream at C St, F St and Rising Sun Avenue to access northbound Boulevard;
  - Delay in this segment increased due to the lane changes (from right to left) the U-turning vehicles were making.



**Figure 4:** Northbound Automobile Travel Time - PM Peak



**Figure 5:** Southbound Automobile Travel Time - PM Peak

### Average Travel Time Per User - Buses

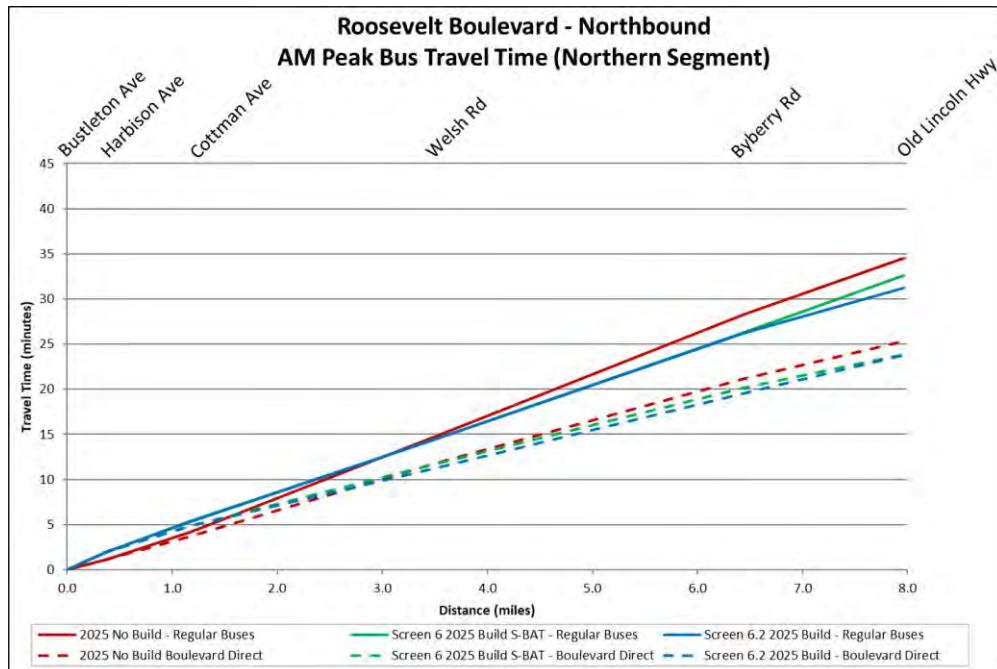
#### AM Peak

Bus travel times for two segments with BAT Lanes along the Boulevard were compared against the 2025 No Build and Screen 6 S-BAT Build Conditions to understand the impact of the proposed changes in Screen 6.2 on bus operations. The Northern segment is between Bustleton Avenue and the city's border with Bucks County. The Southern segment is between Broad Street and Bridge Street.

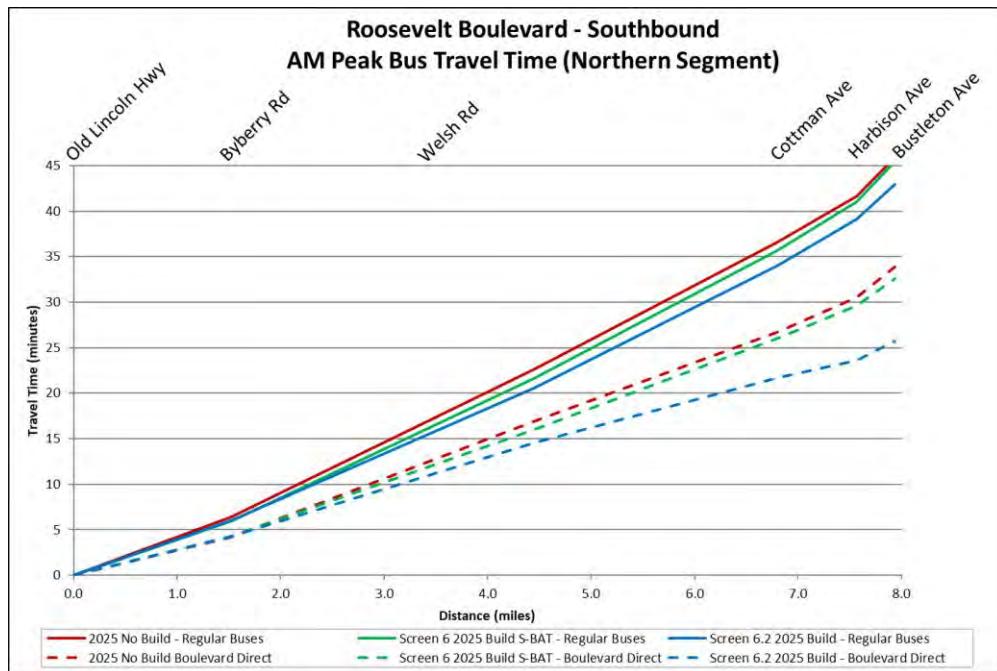
**Figure 6** and **Figure 7** present the AM bus travel times in the Northern segment for the northbound and southbound directions respectively. In the off-peak (northbound) direction, travel times of regular buses in both Build scenarios were lower than the 2025 No Build Conditions (**Figure 6**). Due to a new traffic signal proposed at Woodhaven Road WB to Roosevelt Boulevard NB ramp terminus, there was a shift of 400-600 vehicles from northbound outer to inner lanes between Woodhaven Road and Southampton Road. As a result, regular buses had a slightly shorter travel time in Screen 6.2 compared to Screen 6 S-BAT.

In the peak (southbound) direction, the travel time of regular buses for Screen 6 S-BAT Build scenario was similar to the 2025 No Build travel time and higher than that of Screen 6.2 Build scenario (**Figure 7**). The reduced regular bus travel time in Screen 6.2 can be attributed to the elimination of Nabisco Drive and associated signals.

In both directions, Boulevard Direct buses operated with lower travel times than regular buses. This can be attributed to the fact that these buses made fewer stops along their route and could overtake regular buses; whereas the regular buses were restricted to the BAT lanes. Similar to regular buses, Boulevard Direct buses in Screen 6.2 had lower travel times in the southbound direction due to the elimination of Nabisco Drive.



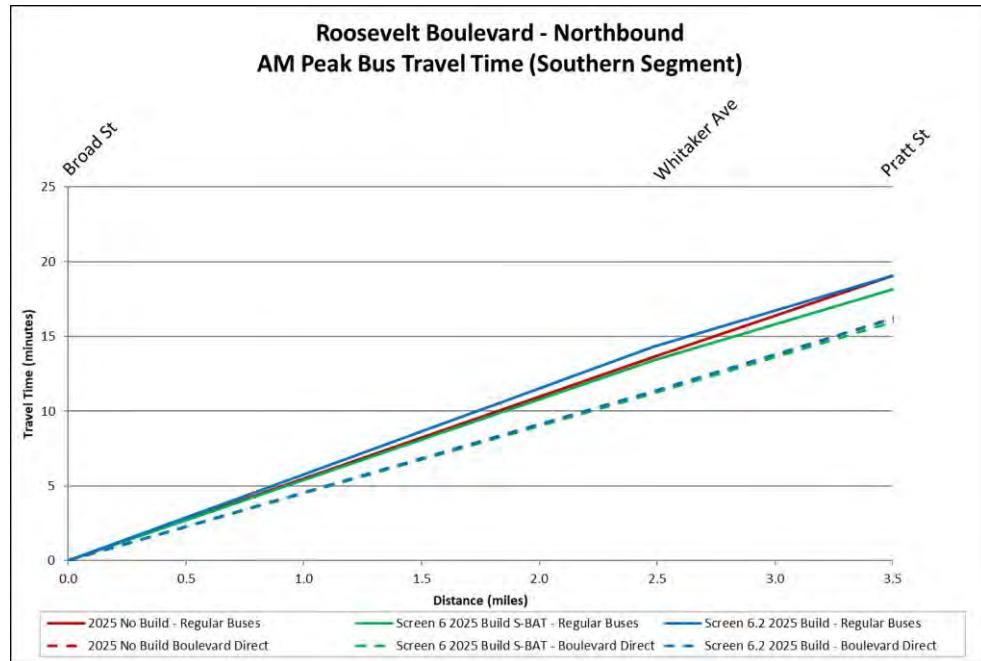
**Figure 6: AM Northbound Bus Travel Times - Northern Segment**



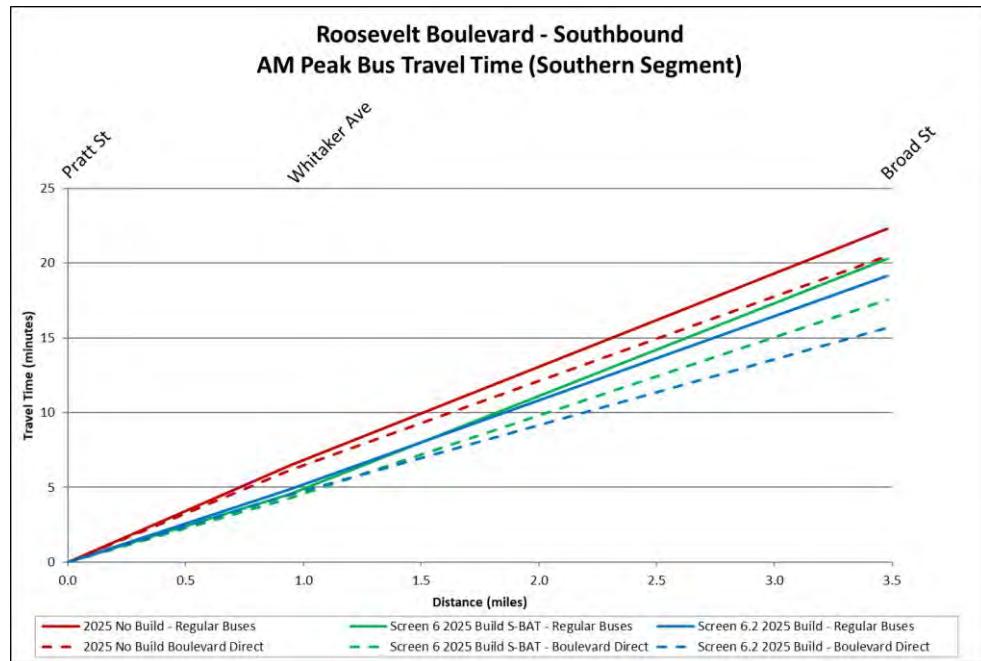
**Figure 7: AM Southbound Bus Travel Times - Northern Segment**

**Figure 8** and **Figure 9** present the PM bus travel times in the Southern segment for the northbound and southbound directions respectively. In the off-peak (northbound) direction, the Screens 6 and 6.2 Build scenarios had similar bus travel times compared to the No Build Conditions. In the peak (southbound) direction, travel times of regular buses for both Build scenarios were lower than the 2025 No Build Conditions with highest savings in Screen 6.2 scenario.

Direct Bus B had lower travel times in both directions compared to regular buses. Similar to automobile travel time, Direct Bus B in Screen 6.2 had lower travel time compared to 2025 No Build and Screen 6 S-BAT Build Conditions.



**Figure 8:** AM Northbound Bus Travel Times - Southern Segment

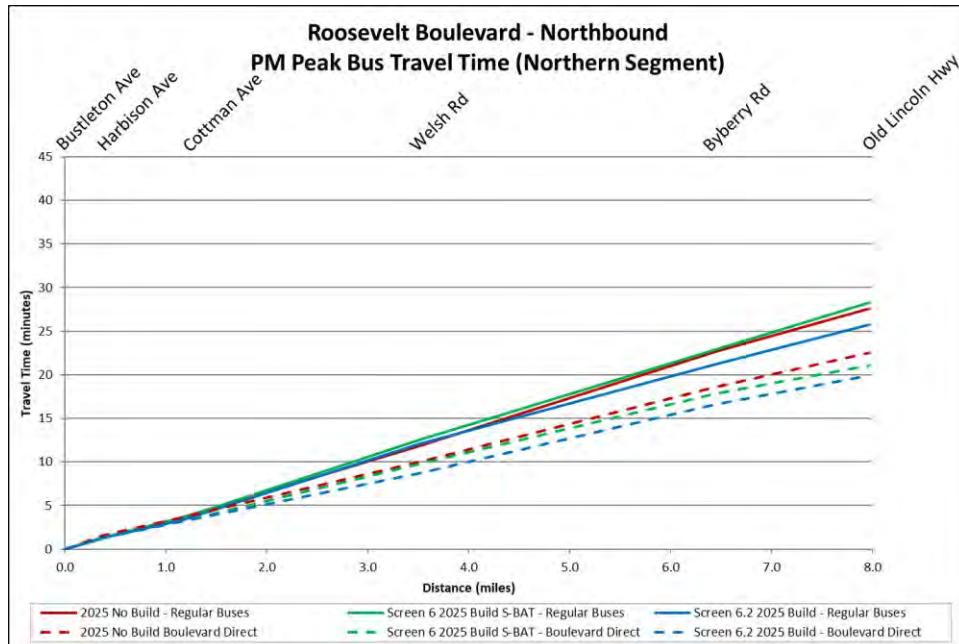


**Figure 9:** AM Southbound Bus Travel Times - Southern Segment

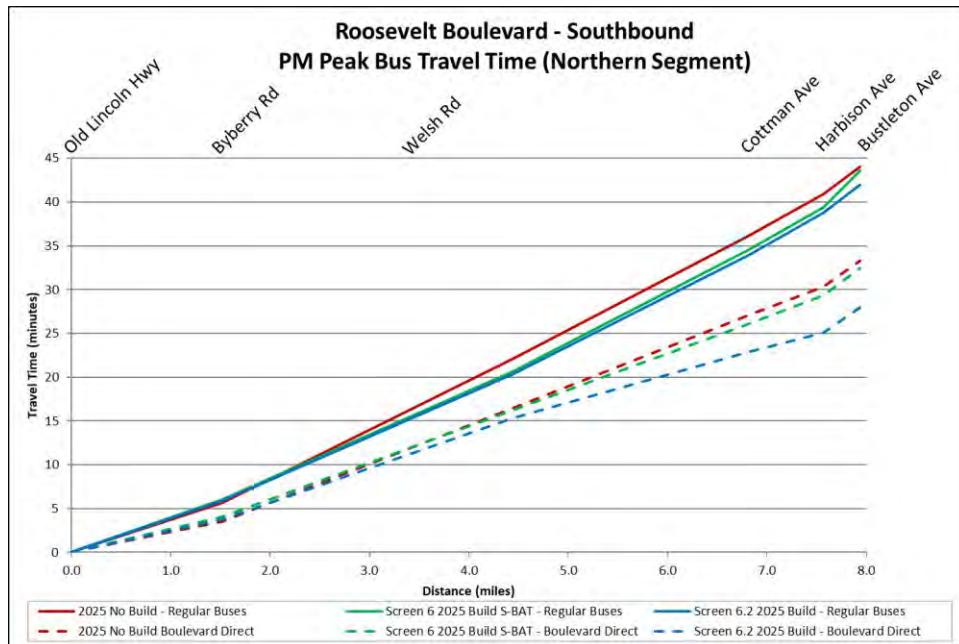
## PM Peak

**Figure 10** and **Figure 11** present the PM bus travel times in the Northern segment for the northbound and southbound directions respectively. In both directions, regular bus travel times for both Screens 6 and 6.2 Build scenarios were within 1-2 minutes of the 2025 No Build Conditions.

Generally, Boulevard Direct buses had lower travel times compared to regular buses. This can be attributed to the fact that these buses made fewer stops along their route and could overtake cars and buses; whereas the regular buses were restricted to the BAT lanes.



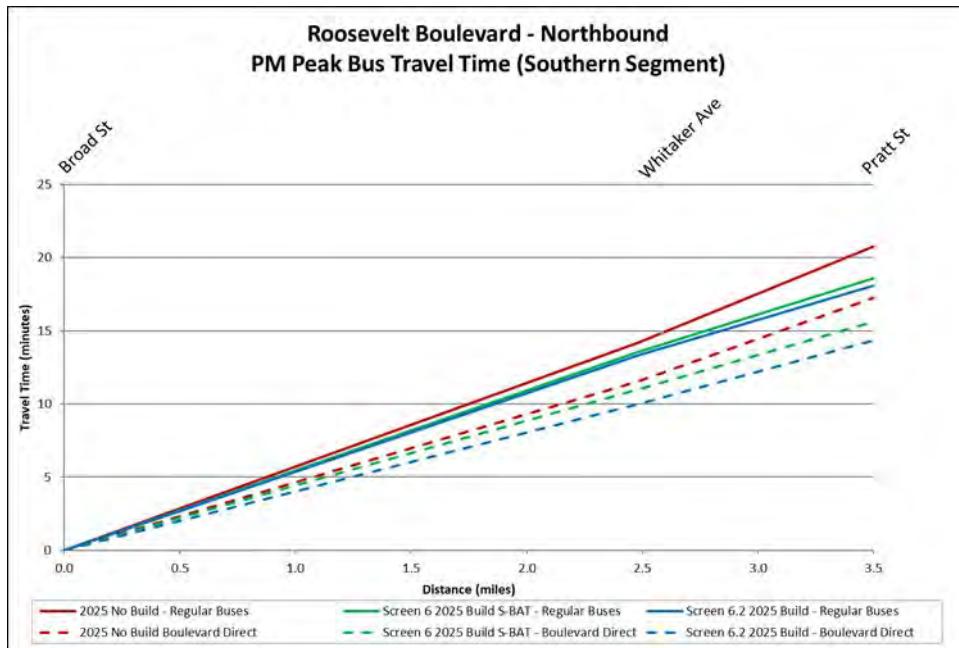
**Figure 10:** PM Northbound Bus Travel Times - Northern Segment



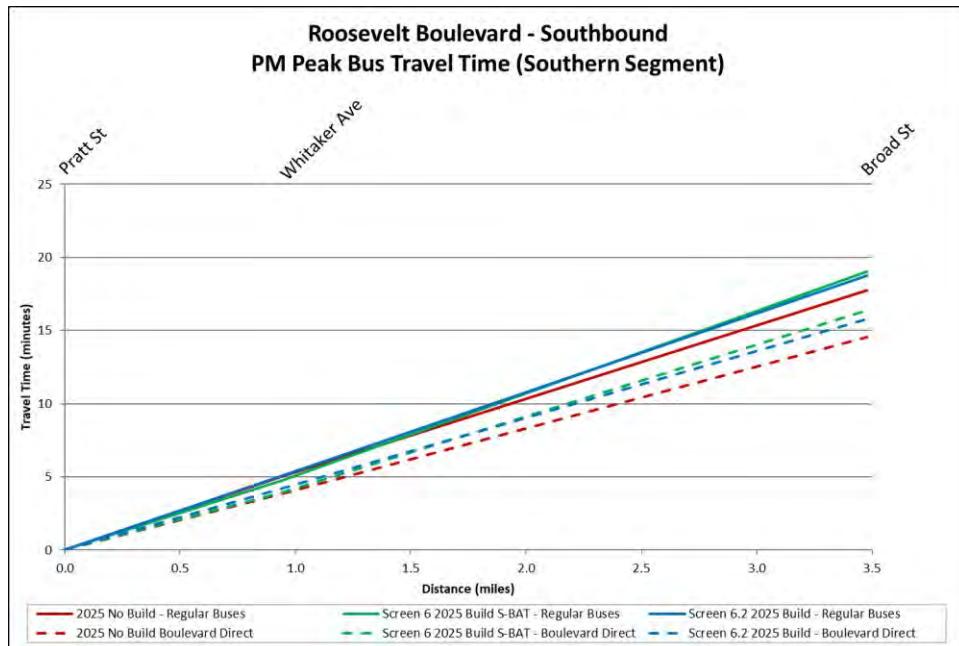
**Figure 11:** PM Southbound Bus Travel Times - Northern Segment

**Figure 12** presents the PM bus travel times in the northbound direction for the Southern segment. The Screen 6.2 Build scenario had lower travel times compared to No Build and Screen 6 S-BAT Build Conditions. **Figure 13** presents the bus travel times in the southbound direction for the Southern segment. The Build travel times were slightly higher compared to the No Build scenario, similar to the travel time trend for automobiles. This was because the signal progression was optimized for the opposite (northbound) direction in the Build scenarios.

In both northbound and southbound directions, Direct Bus B had lower travel times compared to regular buses.



**Figure 12:** PM Northbound Bus Travel Times - Southern Segment



**Figure 13: PM Southbound Bus Travel Times - Southern Segment**

## **LOS and Delay Changes - Automobile**

### AM Peak

Overall, all signalized intersections along the Boulevard operated at LOS C or better in Screen 6.2 Build scenario, except for two intersections operating at LOS D (i.e., Summerdale/Adams Avenue and Tysons Avenue). The traffic operations at all signalized intersections in Screen 6.2 Build scenario were similar to Screen 6 S-BAT Build scenario, except for the following three locations:

- Roosevelt Boulevard and Old York Road
- Roosevelt Boulevard and Summerdale/Adams Avenue
- Roosevelt Boulevard and Southampton Road

The intersection LOS of these three locations improved to LOS C (or better) or worsened to LOS D (or worse) compared to Screen 6 S-BAT Build scenarios (see **Table 3**). To review the more detailed information on movement delay at all the intersections, refer to **Appendix C**.

- The intersection at Old York Road improved to LOS C in Screen 6.2 Build scenario due to geometric changes at Broad Street and West Bristol Street (as presented in **Table 1**).
- Reinstating northbound left-turn at Summerdale/Adams Avenue increased delay in Screen 6.2 Build scenario compared to Screen 6. However, the intersection delay was reduced compared to No Build Conditions.
- At Southampton Road, the proposed southbound dual left-turn lane improved southbound operation in Screen 6.2. Delays decreased on eastbound and westbound approaches of Southampton Road as the offset left configuration eliminated the conflicts between side street left turns.

**Table 3: AM Intersection Delay/LOS Comparison**

| Intersection of Roosevelt Blvd and | 2025 No Build |     | Screen 6 - 2025 Build S-BAT |     | Screen 6.2 - 2025 Build |     |
|------------------------------------|---------------|-----|-----------------------------|-----|-------------------------|-----|
|                                    | Delay         | LOS | Delay                       | LOS | Delay                   | LOS |
| Old York Road                      | 59.4          | E   | 57.4                        | E   | 25.7                    | C   |
| Summerdale/Adams Avenue            | 54.7          | D   | 29.1                        | C   | 40.6                    | D   |
| Southampton Road                   | 84.0          | F   | 72.9                        | E   | 34.7                    | C   |

### PM Peak

Similar to Screen 6 S-BAT Build scenario, in Screen 6.2 Build scenario, all intersections on Roosevelt Boulevard operated at LOS D or better based on overall intersection delay. The number of intersections operating at LOS D decreased from five in Screen 6 S-BAT to three in Screen 6.2.

**Table 4** presents the intersection LOS and delay along the Boulevard where the intersection LOS improved to LOS C (or better) or worsened to LOS D (or worse). For more detailed information on movement delay at all the intersections, refer to **Appendix D**.

- At 9th Street, vehicular demand on eastbound approach increased significantly in Screen 6.2 due to the elimination of the access points to 10th Street and Warnock Street. As a result, eastbound and westbound approaches were more congested in Screen 6.2 compared to Screen 6 S-BAT. In addition, mainline left turns were failing due to increased side street demand and short center median area. However, pedestrian crossing distance reduced by 140 ft as a result of intersection realignment.
- In Screen 6 S-BAT Build scenario, vehicles (originated at Whitaker/Adams Avenue and destined to northbound Boulevard) were making U-turn to access northbound Boulevard at F Street. These vehicles turned left directly onto the Boulevard at Whitaker/Adams Avenue in Screen 6.2 Build scenario, thereby improving overall intersection operation at F Street.
- At Tysons Avenue, 20-30 more westbound left-turn vehicles used inner lanes instead of outer lanes in Screen 6.2 compared to Screen 6 S-BAT. As a result, the intersection delay reduced by 3.4 seconds in Screen 6.2.
- Similar to the AM Peak, dual southbound left-turn lane eased the southbound congestion at Southampton Road in Screen 6.2. The intersection LOS improved from LOS D in Screen 6 S-BAT to LOS C in Screen 6.2

**Table 4:** PM Intersection Delay/LOS Comparison

| Intersection of Roosevelt Blvd and | 2025 No Build |     | Screen 6 - 2025 Build S-BAT |     | Screen 6.2 - 2025 Build |     |
|------------------------------------|---------------|-----|-----------------------------|-----|-------------------------|-----|
|                                    | Delay         | LOS | Delay                       | LOS | Delay                   | LOS |
| 9th Street                         | 19.7          | B   | 23.7                        | C   | 41.2                    | D   |
| F Street                           | 29.9          | C   | 43.7                        | D   | 31.6                    | C   |
| Tyson Avenue                       | 29.0          | C   | 35.7                        | D   | 32.4                    | C   |
| Southampton Road                   | 58.6          | E   | 46.4                        | D   | 32.1                    | C   |

#### Queue Length – Automobile

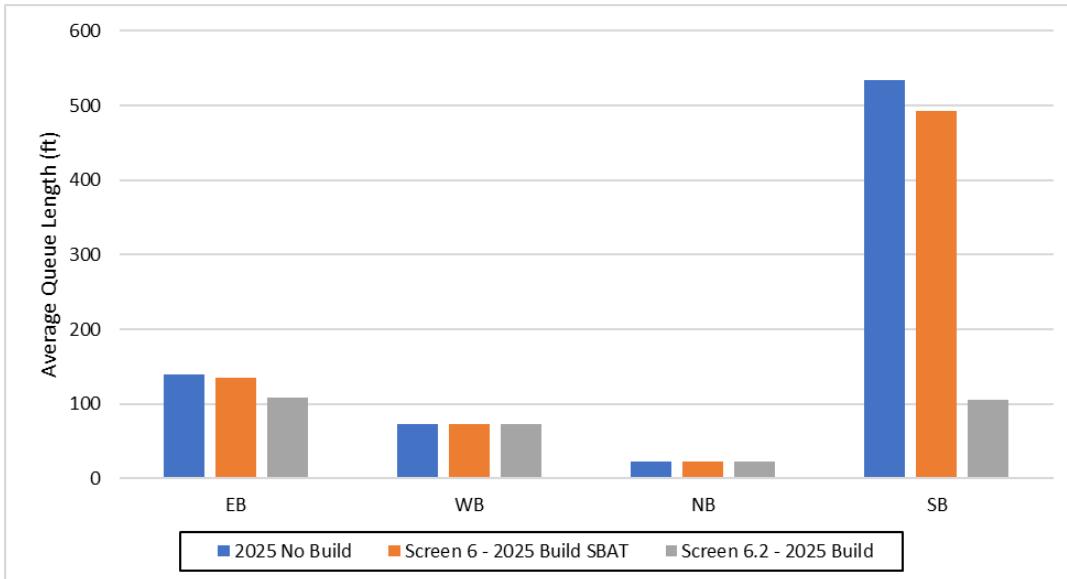
Four intersections where queues increased or decreased due to the proposed changes in Screen 6.2 Build scenario compared to Screen 6 S-BAT are discussed in this section.

- Roosevelt Boulevard and Old York Road
- Roosevelt Boulevard and 9th Street
- Roosevelt Boulevard and Summerdale Avenue
- Roosevelt Boulevard and Southampton Road

To review more detailed queuing information for the entire study area, refer to **Appendices C and D**.

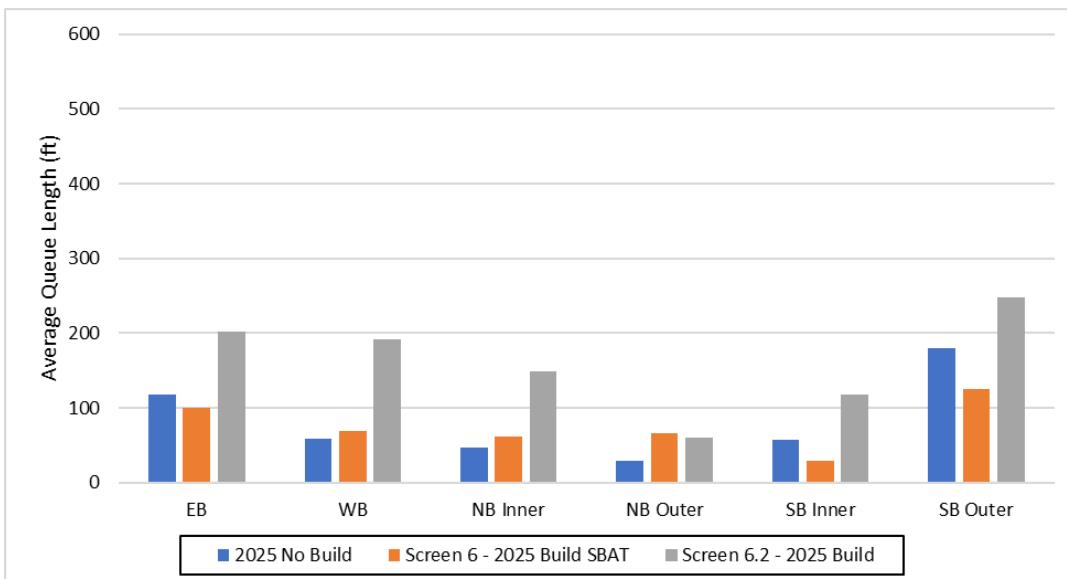
#### AM Peak

At the intersection of Old York Road, queues on southbound approach significantly decreased in Screen 6.2 Build scenario compared to No Build and Screen 6 S-BAT Build scenarios (see **Figure 14**). This can be attributed to the additional westbound left-turn lane at Broad Street and West Bristol Street in Screen 6.2.



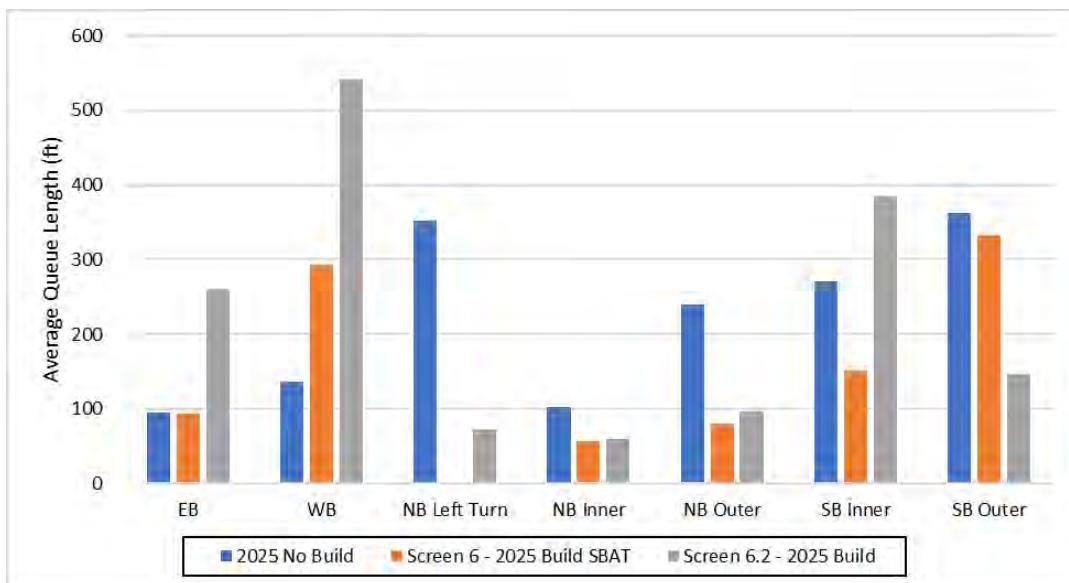
**Figure 14:** AM Queue Length Comparison at Roosevelt Boulevard and Old York Road

**Figure 15** presents the average queue length for each approach at 9th Street intersection in all three scenarios. In Screen 6.2, queues increased on most of the approaches due to the intersection realignment and access eliminations around 9th Street.



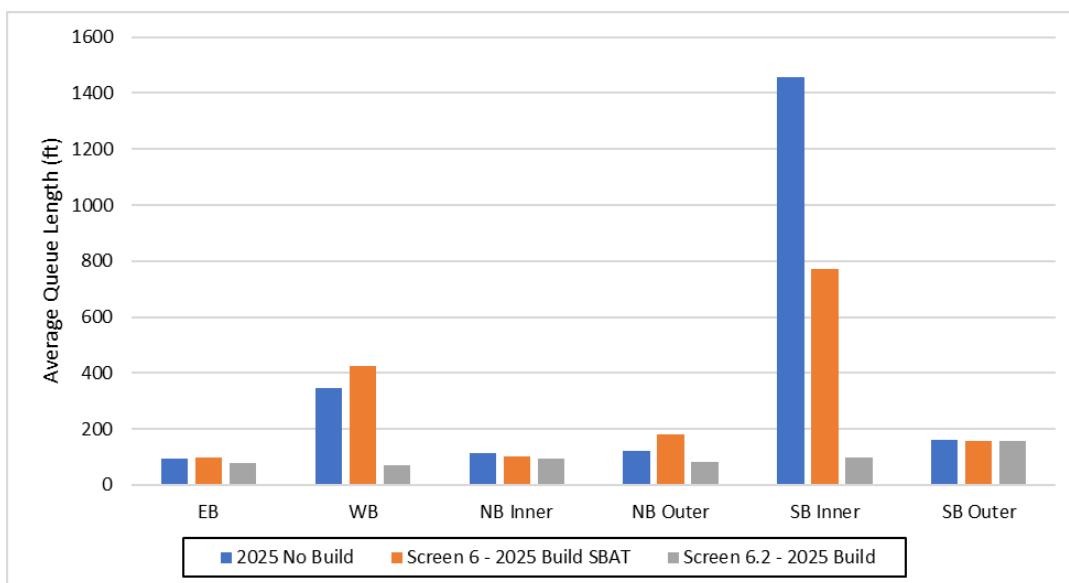
**Figure 15:** AM Queue Length Comparison at Roosevelt Boulevard and 9th Street

**Figure 16** shows the average queue length for each approach at Summerdale/Adams Avenue intersection in all three scenarios. Improved southbound operation in Build scenarios allowed more southbound vehicles to be served resulting in longer westbound queues compared to No Build Conditions. In Screen 6.2 Build scenario, queues from eastbound, westbound, and southbound inner lanes were increased compared to Screen 6 S-BAT Build scenario due to the reinstatement of northbound left-turns at Summerdale/Adams Avenue.



**Figure 16:** AM Queue Length Comparison at Roosevelt Boulevard and Summerdale Avenue

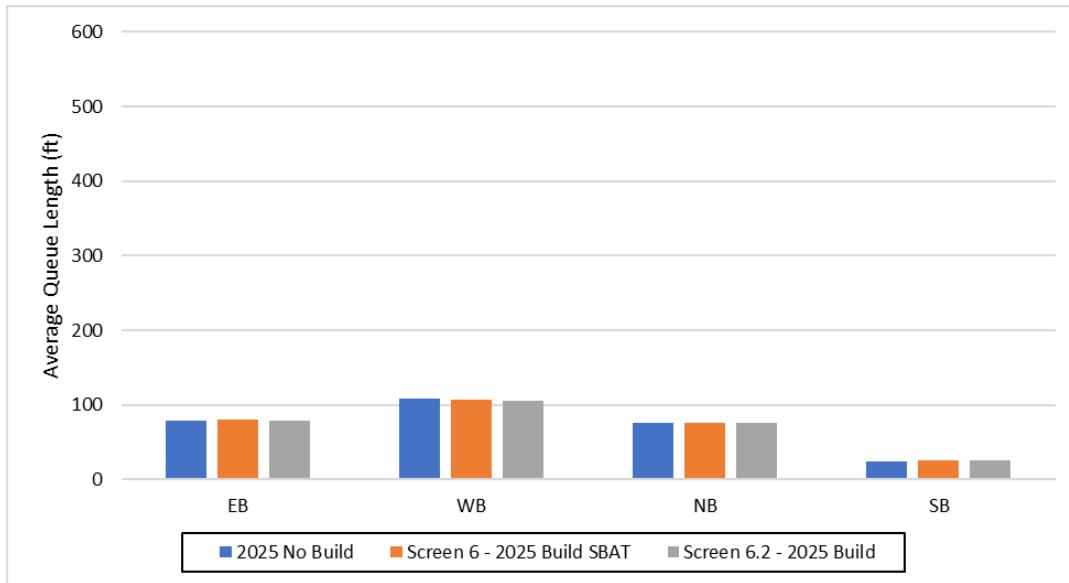
**Figure 17** presents the average queue length for each approach at Southampton Road intersection in all three scenarios. In Screen 6.2 Build scenario, queues from westbound and southbound inner lanes were reduced compared to other scenarios due to dual southbound left-turn lane and offset side street left turns.



**Figure 17:** AM Queue Length Comparison at Roosevelt Boulevard and Southampton Road

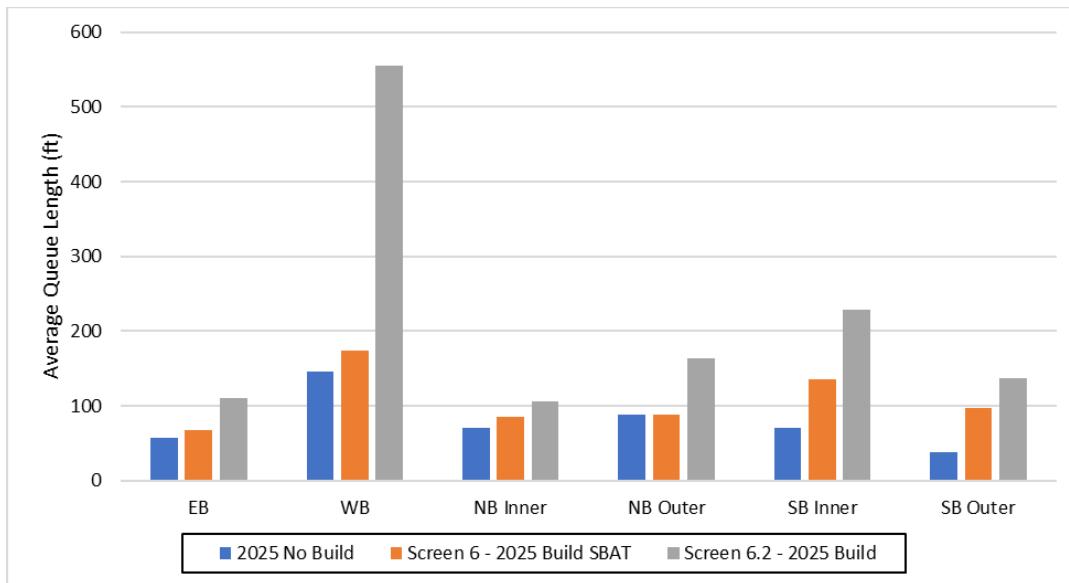
## PM Peak

Since the southbound traffic in the PM Peak was light, queues in all three scenarios were similar as shown in **Figure 18**.



**Figure 18:** PM Queue Length Comparison at Roosevelt Boulevard and Old York Road

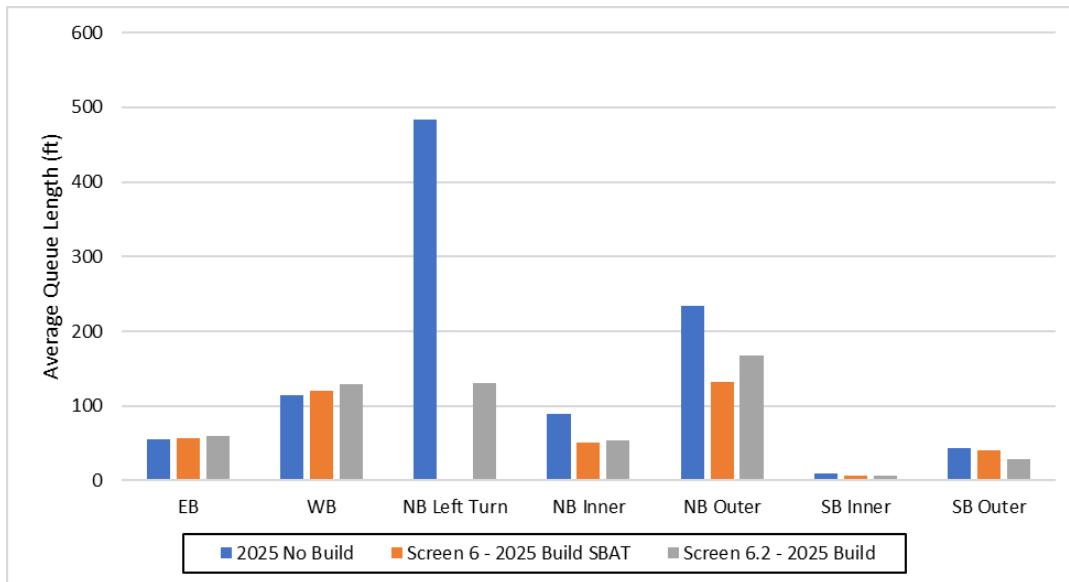
**Figure 19** presents the average queue length for each approach at 9th Street intersection in all three scenarios. Similar to the AM Peak, queues increased on every approach in Screen 6.2 Build scenario due to the intersection realignment and access eliminations around 9th Street.



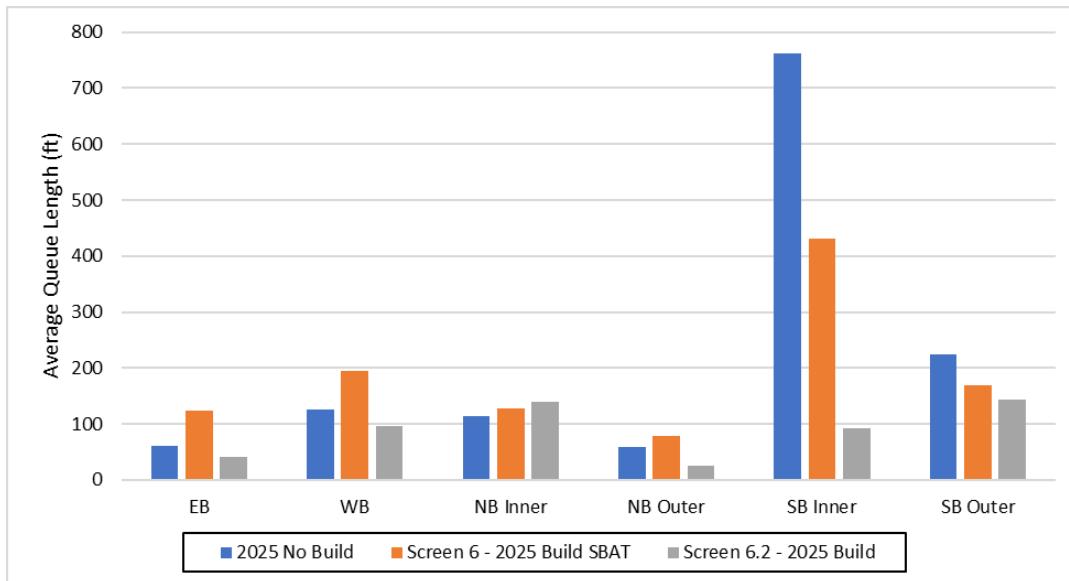
**Figure 19:** PM Queue Length Comparison at Roosevelt Boulevard and 9th Street

**Figure 20** and **Figure 21** present the average queue length at Summerdale/Adams Avenue and Southampton Road, respectively.

- No severe issues were found in Screen 6.2 at Summerdale/Adams Avenue due to light southbound traffic.
- Similar to the AM Peak, the proposed dual southbound left-turn lane and offset side street left turns at Southampton Road improved eastbound, westbound, and southbound operations. As a result, queues reduced in Screen 6.2 Build scenario.



**Figure 20:** PM Queue Length Comparison at Roosevelt Boulevard and Summerdale Avenue



**Figure 21:** PM Queue Length Comparison at Roosevelt Boulevard and Southampton Road

## **CONCLUSION AND RECOMMENDATION**

Screen 6.2 Build scenario was compared to the Screen 6 S-BAT Build scenario and No Build Conditions using VISSIM DTA modeling approach. All of the issues discussed in Screen 6 S-BAT memorandum were resolved except for the operational analysis of the crossovers along the entire corridor. The proposed changes in Screen 6.2 worked in DTA model as it had the most favorable traffic operations. This alternative is a compromise between bus and automobile operations, vehicular and pedestrian access, and bike lane improvements while keeping safety as a priority.

A future study is recommended to determine the feasibility of lagging left-turn phase based on the capacity of the signal timing infrastructure at the following intersections:

- Roosevelt Boulevard and Langdon Street
- Roosevelt Boulevard and Summerdale/Adams Avenue
- Roosevelt Boulevard and Ryan Avenue
- Roosevelt Boulevard and Rhawn Avenue
- Roosevelt Boulevard and Strahle Street
- Roosevelt Boulevard and Woodward Street
- Roosevelt Boulevard and Welsh Street
- Roosevelt Boulevard and Goodnaw Street
- Roosevelt Boulevard and Grant Avenue
- Roosevelt Boulevard and Fulmer Street/Whitman Square
- Roosevelt Boulevard and Lott Street
- Roosevelt Boulevard and Conwell Avenue
- Roosevelt Boulevard and Red Lion Road
- Roosevelt Boulevard and Haldeman Avenue
- Roosevelt Boulevard and Plaza Drive
- Roosevelt Boulevard and Comly Road
- Roosevelt Boulevard and Byberry Road
- Roosevelt Boulevard and Horing Road
- Roosevelt Boulevard and Southampton Road

## **APPENDIX A: SUMMARY OF IMPROVEMENTS**

**APPENDIX B: NUMBER OF SIGNAL CYCLES FOR PEDESTRIANS TO CROSS ROOSEVELT BOULEVARD**

| Intersection at Roosevelt Boulevard and          | 2025 No Build | Screen 6 – 2025 Build S-BAT | Screen 6.2 – 2025 Build |
|--|---------------|-----------------------------|-------------------------|
| Broad Street                                     | 1             | 1                           | 1                       |
| Old York Road                                    | 1             | 1                           | 1                       |
| 9th Street*                                      | 4             | 2                           | 2                       |
| 7th Street                                       | 4             | 2                           | 2                       |
| 5th Street                                       | 2             | 2                           | 2                       |
| 4th-3rd Street                                   | 4             | 2                           | 2                       |
| Banks Way Pedestrian Crossing                    | 2             | 2                           | 2                       |
| Mascher Street                                   | 4             | 2                           | 2                       |
| Front Street*                                    | 4             | 2                           | 2                       |
| Rising Sun Avenue*                               | 4             | 2                           | 2                       |
| B Street Michigan U-Turn                         | n/a           | 2                           | 2                       |
| C Street   | 4             | 2                           | 2                       |
| D Street / Bingham Street Pedestrian Crossing    | 2             | 2                           | 2                       |
| F Street   | 4             | 2                           | 2                       |
| Whitaker Avenue (South) - Garland Street         | 4             | 2                           | 2                       |
| Whitaker Avenue (North) - Adams Avenue           | 4             | 2                           | 2                       |
| Tower Blvd                                       | n/a           | 2                           | 2                       |
| Langdon Street                                   | 4             | 2                           | 2                       |
| Summerdale Avenue - Adams Avenue                 | 4             | 2                           | 2                       |
| Allengrove Street Michigan U-turn                | n/a           | 2                           | 2                       |
| Pratt Street                                     | 4             | 2                           | 2                       |
| Bridge Street                                    | 4             | 2                           | 2                       |
| Sanger Street Pedestrian Crossing*               | 2             | 2                           | 2                       |
| Oxford Circle*                                   | 2             | 2                           | 2                       |
| Large Street*                                    | 4             | 2                           | 2                       |
| Devereaux Street*                                | 4             | 2                           | 2                       |
| Bustleton Avenue*                                | 4             | 2                           | 2                       |
| Levick Street                                    | 4             | 2                           | 2                       |
| Harbison Avenue                                  | 3             | 2                           | 2                       |
| Unruh Avenue Pedestrian Crossing                 | 2             | 2                           | 2                       |
| Longshore Avenue Pedestrian Crossing             | 3             | 2                           | 2                       |
| Tyson Avenue                                     | 3             | 2                           | 2                       |
| Friendship Street Pedestrian Crossing            | 2             | 2                           | 2                       |
| Cottman Avenue                                   | 2             | 2                           | 2                       |
| Faunce Street /Revere Street Pedestrian Crossing | 2             | 2                           | 2                       |

|   |   |   |   |
|---|---|---|---|
| Borbeck Avenue - Ryan Avenue                      | 4 | 2 | 2 |
| Rhawn Street                                      | 2 | 2 | 2 |
| Holme Avenue - Solly Avenue                       | 2 | 2 | 2 |
| Strahle Street                                    | 4 | 2 | 2 |
| Woodward Street                                   | 2 | 2 | 2 |
| Welsh Road  | 2 | 2 | 2 |
| Goodnaw Street                                    | 2 | 2 | 2 |
| Grant Avenue                                      | 2 | 2 | 2 |
| Whitman Plaza - Fulmer Street Pedestrian Crossing | 2 | 2 | 2 |
| Lott Street                                       | 2 | 2 | 2 |
| Bowler Street Pedestrian Crossing                 | 2 | 2 | 2 |
| Conwell Avenue                                    | 4 | 2 | 2 |
| Red Lion Road                                     | 2 | 2 | 2 |
| Tomlinson Avenue Pedestrian Crossing              | 2 | 2 | 2 |
| Haldeman Avenue                                   | 2 | 2 | 2 |
| Plaza Drive                                       | 2 | 2 | 2 |
| Comly Road  | 2 | 2 | 2 |
| Byberry Road                                      | 3 | 2 | 2 |
| Hornig Road - Crown Way                           | 2 | 2 | 2 |
| Southampton Road                                  | 2 | 2 | 2 |
| Northgate Drive                                   | 1 | 1 | 1 |
| Old Lincoln Highway                               | 1 | 1 | 1 |

\* Crossing length reduced in Build

## **APPENDIX C: OPERATIONAL ANALYSIS METRICS - AM PEAK**

## 2025 No Build AM

| Intersection                 | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |  |
|------------------------------|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|--|
| Broad St & Roosevelt Blvd    | EBT      | 1954                    | 5.6                      | A                       | 5.5                      | A                       | 12.4                         | B                           |                     | 53              | 437             |  |  |  |
|                              | EBR      | 191                     | 4.8                      | A                       |                          |                         |                              |                             |                     | 53              | 437             |  |  |  |
|                              | WBT      | 721                     | 10.4                     | B                       |                          |                         |                              |                             |                     | 23              | 190             |  |  |  |
|                              | WBR      | 255                     | 14.2                     | B                       | 11.4                     | B                       |                              |                             |                     | 23              | 190             |  |  |  |
|                              | NBT      | 332                     | 25.3                     | C                       |                          |                         |                              |                             |                     | 28              | 162             |  |  |  |
|                              | NBR      | 0                       | 0.0                      | A                       | 25.3                     | C                       |                              |                             |                     | 28              | 162             |  |  |  |
|                              | SBT      | 813                     | 26.5                     | C                       |                          |                         |                              |                             |                     | 139             | 303             |  |  |  |
| Broad St & Bristol St        | EBT      | 1844                    | 13.6                     | B                       | 13.6                     | B                       | 12.9                         | B                           |                     | 49              | 303             |  |  |  |
|                              | WBT      | 721                     | 2.1                      | A                       | 2.1                      | A                       |                              |                             |                     | 8               | 84              |  |  |  |
|                              | NBL      | 17                      | 21.5                     | C                       | 23.6                     | C                       |                              |                             |                     | 8               | 85              |  |  |  |
|                              | NBR      | 31                      | 24.7                     | C                       |                          |                         |                              |                             |                     | 7               | 83              |  |  |  |
|                              | SBL      | 274                     | 35.3                     | D                       | 35.3                     | D                       |                              |                             |                     | 91              | 153             |  |  |  |
|                              | SBR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 91              | 153             |  |  |  |
| Roosevelt Blvd & Old York Rd | EBL      | 53                      | 41.7                     | D                       | 43.2                     | D                       | 59.4                         | E                           |                     | 139             | 577             |  |  |  |
|                              | EBT      | 501                     | 42.9                     | D                       |                          |                         |                              |                             |                     | 139             | 577             |  |  |  |
|                              | EBR      | 41                      | 49.1                     | D                       |                          |                         |                              |                             |                     | 139             | 577             |  |  |  |
|                              | WBL      | 0                       | 0.0                      | A                       | 23.8                     | C                       |                              |                             |                     | 64              | 220             |  |  |  |
|                              | WBT      | 442                     | 27.5                     | C                       |                          |                         |                              |                             |                     | 64              | 220             |  |  |  |
|                              | WBR      | 102                     | 8.0                      | A                       | 9.4                      | A                       |                              |                             |                     | 74              | 234             |  |  |  |
|                              | NBL      | 40                      | 9.7                      | A                       |                          |                         |                              |                             |                     | 295             | 20              |  |  |  |
|                              | NBT      | 549                     | 9.3                      | A                       |                          |                         |                              |                             |                     | 295             | 20              |  |  |  |
|                              | NBR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 295             | 23              |  |  |  |
|                              | SBL      | 35                      | 86.5                     | F                       | 107.1                    | F                       |                              |                             |                     | 85              | 1285            |  |  |  |
|                              | SBT      | 1136                    | 106.9                    | F                       |                          |                         |                              |                             |                     | 85              | 1285            |  |  |  |
|                              | SBR      | 55                      | 126.2                    | F                       |                          |                         |                              |                             |                     | 85              | 1296            |  |  |  |
| Roosevelt Blvd & 9th Street  | EBL1 (I) | 0                       | 0.0                      | A                       | 64.4                     | E                       | 20.1                         | C                           |                     | 15              | 105             |  |  |  |
|                              | EBL2 (O) | 1                       | 3.5                      | A                       |                          |                         |                              |                             |                     | 15              | 105             |  |  |  |
|                              | EBT      | 189                     | 64.5                     | E                       |                          |                         |                              |                             |                     | 498             | 118             |  |  |  |
|                              | EBR1 (I) | 48                      | 65.2                     | E                       |                          |                         |                              |                             |                     | 498             | 118             |  |  |  |
|                              | EBR2 (O) | 92                      | 64.5                     | E                       | 9.4                      | A                       |                              |                             |                     | 498             | 118             |  |  |  |
|                              | WBL1 (I) | 171                     | 2.1                      | A                       |                          |                         |                              |                             |                     | 21              | 191             |  |  |  |
|                              | WBL2 (O) | 50                      | 5.2                      | A                       |                          |                         |                              |                             |                     | 18              | 185             |  |  |  |
|                              | WBT      | 361                     | 40.9                     | D                       | 27.8                     | C                       |                              |                             |                     | 59              | 325             |  |  |  |
|                              | WBR1 (I) | 45                      | 41.0                     | D                       |                          |                         |                              |                             |                     | 59              | 325             |  |  |  |
|                              | WBR2 (O) | 19                      | 37.6                     | D                       | 13.9                     | B                       |                              |                             |                     | 400             | 48              |  |  |  |
|                              | NBL      | 102                     | 13.9                     | B                       |                          |                         |                              |                             |                     | 48              | 314             |  |  |  |
|                              | NBIT     | 1868                    | 13.9                     | B                       |                          |                         |                              |                             |                     | 30              | 179             |  |  |  |
|                              | NBOT     | 1089                    | 12.1                     | B                       | 10.9                     | B                       |                              |                             |                     | 0               | 56              |  |  |  |
|                              | NBOR     | 420                     | 7.7                      | A                       |                          |                         |                              |                             |                     | 150             | 57              |  |  |  |
|                              | SBIL     | 105                     | 17.0                     | B                       | 18.5                     | B                       |                              |                             |                     | 57              | 576             |  |  |  |
|                              | SBIT     | 1748                    | 18.6                     | B                       |                          |                         |                              |                             |                     | 800             | 180             |  |  |  |
|                              | SBOT     | 2817                    | 23.4                     | C                       | 23.4                     | C                       |                              |                             |                     | 800             | 395             |  |  |  |
|                              | SBOR     | 5                       | 19.5                     | B                       |                          |                         |                              |                             |                     | 800             | 388             |  |  |  |
| Roosevelt Blvd & 7th Street  | EBL1 (I) | 64                      | 0.2                      | A                       | 22.2                     | C                       | 22.0                         | C                           |                     | 515             | 0               |  |  |  |
|                              | EBL2 (O) | 224                     | 0.5                      | A                       |                          |                         |                              |                             |                     | 515             | 0               |  |  |  |
|                              | EBT      | 287                     | 40.3                     | D                       |                          |                         |                              |                             |                     | 74              | 306             |  |  |  |
|                              | EBR1 (I) | 59                      | 39.3                     | D                       |                          |                         |                              |                             |                     | 74              | 306             |  |  |  |
|                              | EBR2 (O) | 5                       | 37.3                     | D                       | 18.1                     | B                       |                              |                             |                     | 74              | 306             |  |  |  |
|                              | NBIT     | 1931                    | 18.1                     | B                       |                          |                         |                              |                             |                     | 950             | 69              |  |  |  |
|                              | NBOT     | 1147                    | 15.8                     | B                       |                          |                         |                              |                             |                     | 950             | 44              |  |  |  |
|                              | SBIL     | 1                       | 5.0                      | A                       | 18.0                     | B                       |                              |                             |                     | 50              | 497             |  |  |  |
|                              | SBIT     | 1822                    | 18.0                     | B                       |                          |                         |                              |                             |                     | 50              | 497             |  |  |  |
|                              | SBOT     | 2784                    | 30.5                     | C                       | 29.1                     | C                       |                              |                             |                     | 212             | 600             |  |  |  |
|                              | SBOR     | 218                     | 11.8                     | B                       |                          |                         |                              |                             |                     | 0               | 61              |  |  |  |
| Roosevelt Blvd & 5th Street  | EBL      | 38                      | 11.1                     | B                       | 74.0                     | E                       | 16.1                         | B                           |                     | 280             | 20              |  |  |  |
|                              | EBT      | 282                     | 81.1                     | F                       |                          |                         |                              |                             |                     | 280             | 219             |  |  |  |
|                              | EBR      | 105                     | 77.6                     | E                       |                          |                         |                              |                             |                     | 280             | 219             |  |  |  |
|                              | WBL      | 95                      | 10.3                     | B                       | 39.8                     | D                       |                              |                             |                     | 225             | 39              |  |  |  |
|                              | WBT      | 339                     | 47.8                     | D                       |                          |                         |                              |                             |                     | 225             | 92              |  |  |  |
|                              | WBR      | 21                      | 44.0                     | D                       | 13.3                     | B                       |                              |                             |                     | 225             | 92              |  |  |  |
|                              | NBOL     | 192                     | 17.2                     | B                       |                          |                         |                              |                             |                     | 490             | 32              |  |  |  |
|                              | NBOT     | 1109                    | 12.7                     | B                       |                          |                         |                              |                             |                     | 490             | 32              |  |  |  |
|                              | NBOR     | 0                       | 0.0                      | A                       | 4.1                      | A                       |                              |                             |                     | 490             | 32              |  |  |  |
|                              | SBOL     | 110                     | 12.5                     | B                       |                          |                         |                              |                             |                     | 28              | 235             |  |  |  |
|                              | SBOT     | 2562                    | 3.8                      | A                       |                          |                         |                              |                             |                     | 28              | 235             |  |  |  |
|                              | SBOR     | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 28              | 235             |  |  |  |

## 2025 No Build AM

| Intersection                    | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|---------------------------------|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & 4th-3rd Street | EBL1 (I) | 73                      | 2.7                      | A                       | 29.4                     | C                       | 17.2                         | B                           |                     | 4               | 109             |  |  |
|                                 | EBL2 (O) | 100                     | 3.2                      | A                       |                          |                         |                              |                             |                     | 4               | 109             |  |  |
|                                 | EBT      | 345                     | 40.1                     | D                       |                          |                         |                              |                             |                     | 90              | 286             |  |  |
|                                 | EBR1 (I) | 15                      | 39.4                     | D                       |                          |                         |                              |                             |                     | 90              | 286             |  |  |
|                                 | EBR2 (O) | 76                      | 39.4                     | D                       |                          |                         |                              |                             |                     | 90              | 286             |  |  |
|                                 | WBL1 (I) | 15                      | 5.2                      | A                       | 22.6                     | C                       |                              |                             |                     | 21              | 133             |  |  |
|                                 | WBL2 (O) | 128                     | 3.7                      | A                       |                          |                         |                              |                             |                     | 21              | 133             |  |  |
|                                 | WBT      | 251                     | 33.2                     | C                       |                          |                         |                              |                             |                     | 40              | 235             |  |  |
|                                 | WBR1 (I) | 1                       | 22.1                     | C                       |                          |                         |                              |                             |                     | 40              | 235             |  |  |
|                                 | WBR2 (O) | 8                       | 25.9                     | C                       | 21.5                     | C                       |                              |                             |                     | 40              | 235             |  |  |
|                                 | NBIL1    | 147                     | 37.2                     | D                       |                          |                         |                              |                             | 275                 | 67              | 624             |  |  |
|                                 | NBIT     | 1814                    | 20.2                     | C                       |                          |                         |                              |                             |                     | 67              | 624             |  |  |
|                                 | NBOT     | 1077                    | 14.8                     | B                       |                          |                         |                              |                             |                     | 38              | 257             |  |  |
|                                 | NBOR     | 90                      | 18.4                     | B                       | 15.1                     | B                       |                              |                             |                     | 38              | 257             |  |  |
|                                 | SBIL     | 21                      | 11.5                     | B                       |                          |                         |                              |                             |                     | 33              | 189             |  |  |
|                                 | SBIT     | 1781                    | 10.5                     | B                       |                          |                         |                              |                             |                     | 33              | 189             |  |  |
|                                 | SBOT     | 2467                    | 15.8                     | B                       |                          |                         |                              |                             |                     | 82              | 340             |  |  |
|                                 | SBOR     | 0                       | 5.9                      | A                       | 15.8                     | B                       |                              |                             |                     | 82              | 341             |  |  |
| Roosevelt Blvd & 2nd St Ped     | WBR      | 0                       | 0.0                      | A                       | 0.0                      | A                       | 2.4                          | A                           |                     | 0               | 0               |  |  |
|                                 | NBIT     | 1946                    | 1.6                      | A                       | 1.6                      | A                       |                              |                             |                     | 5               | 117             |  |  |
|                                 | NBOT     | 1134                    | 3.8                      | A                       | 3.8                      | A                       |                              |                             |                     | 7               | 219             |  |  |
|                                 | SBIT     | 1807                    | 2.2                      | A                       | 2.2                      | A                       |                              |                             |                     | 3               | 102             |  |  |
|                                 | SBOT     | 2560                    | 2.6                      | A                       | 2.6                      | A                       |                              |                             |                     | 4               | 113             |  |  |
| Roosevelt Blvd & Mascher St     | EBL1 (I) | 90                      | 3.5                      | A                       | 34.4                     | C                       | 20.6                         | C                           |                     | 38              | 181             |  |  |
|                                 | EBL2 (O) | 151                     | 2.1                      | A                       |                          |                         |                              |                             |                     | 1               | 135             |  |  |
|                                 | EBT      | 596                     | 42.0                     | D                       |                          |                         |                              |                             |                     | 120             | 391             |  |  |
|                                 | EBR1 (I) | 109                     | 50.8                     | D                       |                          |                         |                              |                             |                     | 120             | 391             |  |  |
|                                 | EBR2 (O) | 91                      | 49.0                     | D                       |                          |                         |                              |                             |                     | 120             | 391             |  |  |
|                                 | NBIT     | 1932                    | 31.0                     | C                       | 31.0                     | C                       |                              |                             | 580                 | 133             | 654             |  |  |
|                                 | NBOT     | 995                     | 22.8                     | C                       | 23.1                     | C                       |                              |                             | 580                 | 59              | 382             |  |  |
|                                 | NBOR     | 41                      | 29.3                     | C                       | 12.5                     | B                       |                              |                             | 580                 | 59              | 382             |  |  |
|                                 | SBIL     | 177                     | 20.8                     | C                       |                          |                         |                              |                             |                     | 52              | 248             |  |  |
|                                 | SBIT     | 1698                    | 11.7                     | B                       |                          |                         |                              |                             |                     | 52              | 248             |  |  |
|                                 | SBOT     | 2472                    | 11.8                     | B                       |                          |                         |                              |                             |                     | 54              | 304             |  |  |
| Roosevelt Blvd & Front St       | WBL1     | 42                      | 1.2                      | A                       | 12.2                     | B                       | 6.8                          | A                           |                     | 60              | 187             |  |  |
|                                 | WBL2     | 63                      | 2.9                      | A                       |                          |                         |                              |                             |                     | 60              | 187             |  |  |
|                                 | WBT      | 504                     | 12.9                     | B                       |                          |                         |                              |                             |                     | 60              | 187             |  |  |
|                                 | WBR1     | 28                      | 33.9                     | C                       |                          |                         |                              |                             |                     | 53              | 226             |  |  |
|                                 | WBR2     | 4                       | 28.9                     | C                       |                          |                         |                              |                             |                     | 53              | 226             |  |  |
|                                 | NBIL1    | 190                     | 53.4                     | D                       | 8.9                      | A                       |                              |                             | 380                 | 47              | 267             |  |  |
|                                 | NBIT     | 1831                    | 4.2                      | A                       | 3.6                      | A                       |                              |                             | 475                 | 47              | 267             |  |  |
|                                 | NBOT     | 1145                    | 3.6                      | A                       | 3.6                      | A                       |                              |                             | 475                 | 15              | 118             |  |  |
|                                 | SBIT     | 1769                    | 3.7                      | A                       | 3.7                      | A                       |                              |                             | 315                 | 13              | 98              |  |  |
|                                 | SBOT     | 2480                    | 7.3                      | A                       | 7.4                      | A                       |                              |                             | 350                 | 36              | 361             |  |  |
|                                 | SBOR     | 60                      | 10.0                     | B                       |                          |                         |                              |                             | 350                 | 36              | 361             |  |  |
| Roosevelt Blvd & Rising Sun Ave | EBL1 (I) | 42                      | 11.6                     | B                       | 47.9                     | D                       | 31.7                         | C                           |                     | 98              | 212             |  |  |
|                                 | EBL2 (O) | 13                      | 12.7                     | B                       |                          |                         |                              |                             |                     | 98              | 212             |  |  |
|                                 | EBT      | 198                     | 54.1                     | D                       |                          |                         |                              |                             |                     | 110             | 450             |  |  |
|                                 | EBR1 (I) | 84                      | 52.0                     | D                       |                          |                         |                              |                             |                     | 110             | 450             |  |  |
|                                 | EBR2 (O) | 121                     | 51.0                     | D                       |                          |                         |                              |                             |                     | 110             | 450             |  |  |
|                                 | WBL1 (I) | 0                       | 0.0                      | A                       | 23.0                     | C                       |                              |                             | 60                  | 103             | 221             |  |  |
|                                 | WBL2 (O) | 105                     | 13.8                     | B                       |                          |                         |                              |                             | 60                  | 103             | 221             |  |  |
|                                 | WBT      | 330                     | 25.4                     | C                       |                          |                         |                              |                             | 60                  | 151             | 522             |  |  |
|                                 | WBR1 (I) | 28                      | 26.5                     | C                       |                          |                         |                              |                             | 60                  | 151             | 522             |  |  |
|                                 | WBR2 (O) | 33                      | 24.8                     | C                       | 9.9                      | A                       |                              |                             | 60                  | 151             | 522             |  |  |
|                                 | NBIL1    | 241                     | 67.8                     | E                       |                          |                         |                              |                             | 205                 | 64              | 306             |  |  |
|                                 | NBIT     | 1611                    | 9.9                      | A                       |                          |                         |                              |                             | 245                 | 64              | 306             |  |  |
|                                 | NBOT     | 1148                    | 3.4                      | A                       |                          |                         |                              |                             | 230                 | 16              | 108             |  |  |
|                                 | SBIL     | 270                     | 117.8                    | F                       | 69.2                     | E                       |                              |                             | 250                 | 409             | 1024            |  |  |
|                                 | SBIT     | 1686                    | 61.4                     | E                       |                          |                         |                              |                             | 1235                | 409             | 1024            |  |  |
|                                 | SBOT     | 2315                    | 23.9                     | C                       |                          |                         |                              |                             | 1180                | 139             | 456             |  |  |
|                                 | SBOR     | 1                       | 12.2                     | B                       |                          |                         |                              |                             | 1180                | 139             | 456             |  |  |

## 2025 No Build AM

| Intersection                                       | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |     |  |  |
|--|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|-----|--|--|
| Roosevelt Blvd & C Street                          | EBL1 (I) | 55                      | 8.2                      | A                       | 71.8                     | E                       | 29.9                         | C                           |                     | 48              | 207             |     |  |  |
|  | EBL2 (O) | 64                      | 10.2                     | B                       |                          |                         |                              |                             |                     | 48              | 207             |     |  |  |
|  | EBT      | 333                     | 87.3                     | F                       |                          |                         |                              |                             |                     | 172             | 576             |     |  |  |
|  | EBR1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 172             | 576             |     |  |  |
|  | EBR2 (O) | 118                     | 91.3                     | F                       |                          |                         |                              |                             |                     | 172             | 576             |     |  |  |
|  | WBL1 (I) | 8                       | 4.4                      | A                       | 32.9                     | C                       |                              |                             |                     | 1               | 63              |     |  |  |
|  | WBL2 (O) | 82                      | 9.4                      | A                       |                          |                         |                              |                             |                     | 1               | 63              |     |  |  |
|  | WBT      | 347                     | 38.2                     | D                       |                          |                         |                              |                             |                     | 76              | 368             |     |  |  |
|  | WBR1 (I) | 27                      | 44.2                     | D                       |                          |                         |                              |                             |                     | 76              | 368             |     |  |  |
|  | WBR2 (O) | 2                       | 46.6                     | D                       |                          |                         |                              |                             |                     | 76              | 368             |     |  |  |
|  | NBIL1    | 4                       | 15.1                     | B                       | 18.2                     | B                       |                              |                             | 1335                | 51              | 432             |     |  |  |
|  | NBIT     | 1665                    | 18.2                     | B                       |                          |                         |                              |                             | 1335                | 51              | 432             |     |  |  |
|  | NBOT     | 1163                    | 17.1                     | B                       |                          |                         |                              |                             | 1375                | 36              | 335             |     |  |  |
|  | NBOR     | 30                      | 11.4                     | B                       | 35.5                     | D                       |                              |                             | 1375                | 36              | 335             |     |  |  |
|  | SBIL     | 174                     | 93.4                     | F                       |                          |                         |                              |                             | 255                 | 165             | 690             |     |  |  |
|  | SBIT     | 1824                    | 30.0                     | C                       |                          |                         |                              |                             | 775                 | 165             | 690             |     |  |  |
|  | SBOT     | 2308                    | 29.3                     | C                       | 29.3                     | C                       |                              |                             | 785                 | 192             | 492             |     |  |  |
|  | SBOR     | 121                     | 29.7                     | C                       |                          |                         |                              |                             | 785                 | 192             | 492             |     |  |  |
| Roosevelt Blvd & Rorer St - D St                   | WBR      | 46                      | 1.6                      | A                       | 1.6                      | A                       | 7.0                          | A                           |                     | 0               | 29              |     |  |  |
|  | NBIT     | 1771                    | 7.6                      | A                       | 7.6                      | A                       |                              |                             | 680                 | 21              | 525             |     |  |  |
|  | NBOT     | 1239                    | 7.0                      | A                       | 7.0                      | A                       |                              |                             | 680                 | 16              | 407             |     |  |  |
|  | NBOR     | 1                       | 1.4                      | A                       |                          |                         |                              |                             | 680                 | 16              | 407             |     |  |  |
|  | SBIT     | 2023                    | 6.8                      | A                       | 6.8                      | A                       |                              |                             | 1150                | 13              | 184             |     |  |  |
|  | SBOT     | 2223                    | 6.7                      | A                       | 6.7                      | A                       |                              |                             | 1160                | 34              | 192             |     |  |  |
| Roosevelt Blvd & F Street                          | EBL1 (I) | 44                      | 21.0                     | C                       | 72.6                     | E                       | 23.2                         | C                           |                     | 21              | 171             |     |  |  |
|  | EBL2 (O) | 16                      | 4.6                      | A                       |                          |                         |                              |                             |                     | 21              | 171             |     |  |  |
|  | EBL3     | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 21              | 171             |     |  |  |
|  | EBT      | 341                     | 80.0                     | F                       | 53.1                     | D                       |                              |                             |                     | 216             | 718             |     |  |  |
|  | EBR1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 216             | 718             |     |  |  |
|  | EBR2 (O) | 182                     | 77.1                     | E                       |                          |                         |                              |                             |                     | 216             | 718             |     |  |  |
|  | WBL1 (I) | 1                       | 0.7                      | A                       | 16.0                     | B                       |                              |                             |                     | 26              | 171             |     |  |  |
|  | WBL2 (O) | 108                     | 3.6                      | A                       |                          |                         |                              |                             |                     | 26              | 171             |     |  |  |
|  | WBT      | 377                     | 67.5                     | E                       |                          |                         |                              |                             |                     | 139             | 426             |     |  |  |
|  | WBR1 (I) | 0                       | 0.0                      | A                       | 9.8                      | A                       |                              |                             |                     | 139             | 426             |     |  |  |
|  | WBR2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 139             | 426             |     |  |  |
|  | NBIL1    | 134                     | 19.2                     | B                       |                          |                         |                              |                             |                     | 170             | 41              | 530 |  |  |
|  | NBIT     | 1682                    | 15.7                     | B                       | 21.4                     | C                       |                              |                             |                     | 1275            | 41              | 530 |  |  |
|  | NBOT     | 1171                    | 9.8                      | A                       |                          |                         |                              |                             |                     | 1275            | 35              | 284 |  |  |
|  | NBOR     | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 1275            | 35              | 284 |  |  |
|  | SBIL     | 84                      | 28.5                     | C                       | 18.5                     | B                       |                              |                             |                     | 1050            | 101             | 672 |  |  |
|  | SBIT     | 2022                    | 21.1                     | C                       |                          |                         |                              |                             |                     | 1050            | 101             | 672 |  |  |
|  | SBOT     | 2115                    | 18.5                     | B                       |                          |                         |                              |                             |                     | 1000            | 88              | 578 |  |  |
|  | SBOR     | 51                      | 20.3                     | C                       |                          |                         |                              |                             |                     | 1000            | 88              | 578 |  |  |
| Roosevelt Blvd & Whitaker Ave (South) - Garland St | EBR      | 0                       | 0.0                      | A                       | 0.0                      | A                       | 14.3                         | B                           |                     | 0               | 0               |     |  |  |
|  | WBR1 (I) | 203                     | 42.5                     | D                       | 43.4                     | D                       |                              |                             |                     | 71              | 324             |     |  |  |
|  | WBR2 (O) | 197                     | 44.3                     | D                       |                          |                         |                              |                             |                     | 71              | 324             |     |  |  |
|  | NBIT     | 1741                    | 18.9                     | B                       | 18.2                     | B                       |                              |                             |                     | 1080            | 58              | 556 |  |  |
|  | NBOT     | 1188                    | 17.1                     | B                       |                          |                         |                              |                             |                     | 1080            | 41              | 406 |  |  |
|  | NBOR     | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 1080            | 41              | 406 |  |  |
|  | SBU1 (I) | 0                       | 0.0                      | A                       | 40.8                     | D                       |                              |                             |                     | 89              | 334             |     |  |  |
|  | SBU2 (O) | 5                       | 44.8                     | D                       |                          |                         |                              |                             |                     | 89              | 334             |     |  |  |
|  | SBL      | 704                     | 40.8                     | D                       |                          |                         |                              |                             |                     | 320             | 89              | 334 |  |  |
|  | SBIT     | 2162                    | 5.2                      | A                       | 5.2                      | A                       |                              |                             |                     | 450             | 29              | 261 |  |  |
|  | SBOT     | 2166                    | 3.9                      | A                       | 3.9                      | A                       |                              |                             |                     | 470             | 14              | 235 |  |  |
|  | SBOR     | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 470             | 14              | 235 |  |  |
| Roosevelt Blvd & Whitaker Ave (North) - Adams Ave  | EBL1 (I) | 145                     | 6.0                      | A                       | 13.8                     | B                       | 22.5                         | C                           |                     | 11              | 114             |     |  |  |
|  | EBL2 (O) | 390                     | 5.5                      | A                       |                          |                         |                              |                             |                     | 11              | 114             |     |  |  |
|  | EBR1 (I) | 277                     | 25.9                     | C                       |                          |                         |                              |                             |                     | 57              | 243             |     |  |  |
|  | EBR2 (O) | 92                      | 25.3                     | C                       | 11.6                     | B                       |                              |                             |                     | 57              | 243             |     |  |  |
|  | NBIL     | 319                     | 19.4                     | B                       |                          |                         |                              |                             |                     | 245             | 97              | 352 |  |  |
|  | NBIT     | 1636                    | 10.0                     | B                       |                          |                         |                              |                             |                     | 265             | 73              | 395 |  |  |
|  | NBOT     | 1387                    | 9.2                      | A                       | 9.2                      | A                       |                              |                             |                     | 290             | 44              | 267 |  |  |
|  | SBIT     | 2593                    | 29.5                     | C                       | 29.5                     | C                       |                              |                             |                     | 780             | 152             | 531 |  |  |
|  | SBOT     | 2005                    | 34.2                     | C                       | 34.4                     | C                       |                              |                             |                     | 800             | 178             | 651 |  |  |
|  | SBOR     | 445                     | 35.4                     | D                       |                          |                         |                              |                             |                     | 800             | 178             | 651 |  |  |

## 2025 No Build AM

| Intersection                                | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |     |  |  |
|---|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|-----|--|--|
| Roosevelt BLvd & Tower Blvd                 | EBR      | 115                     | 15.2                     | B                       | 15.2                     | B                       | 5.2                          | A                           |                     | 5               | 92              |     |  |  |
|   | NBIL     | 165                     | 48.2                     | D                       | 48.2                     | D                       |                              |                             | 320                 | 25              | 124             |     |  |  |
|   | SBIT     | 2613                    | 3.1                      | A                       | 3.1                      | A                       |                              |                             | 580                 | 6               | 110             |     |  |  |
|   | SBOT     | 2336                    | 4.0                      | A                       |                          |                         |                              |                             | 580                 | 13              | 195             |     |  |  |
|   | SBOR     | 49                      | 7.2                      | A                       | 4.1                      | A                       |                              |                             | 580                 | 12              | 195             |     |  |  |
| Roosevelt Blvd & Langdon St                 | EBL1 (I) | 103                     | 1.5                      | A                       | 45.9                     | D                       | 18.1                         | B                           |                     | 1               | 74              |     |  |  |
|   | EBL2 (O) | 237                     | 7.0                      | A                       |                          |                         |                              |                             | 4                   | 105             |                 |     |  |  |
|   | EBT      | 343                     | 82.8                     | F                       |                          |                         |                              |                             | 200                 | 138             | 323             |     |  |  |
|   | EBR1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 138             | 323             |     |  |  |
|   | EBR2 (O) | 27                      | 85.1                     | F                       |                          |                         |                              |                             |                     | 138             | 323             |     |  |  |
|   | WBL1 (I) | 0                       | 0.0                      | A                       | 43.9                     | D                       |                              |                             | 0                   | 0               |                 |     |  |  |
|   | WBL2 (O) | 5                       | 9.6                      | A                       |                          |                         |                              |                             |                     | 0               | 25              |     |  |  |
|   | WBT      | 9                       | 41.9                     | D                       |                          |                         |                              |                             |                     | 20              | 118             |     |  |  |
|   | WBR1 (I) | 64                      | 46.5                     | D                       |                          |                         |                              |                             | 200                 | 20              | 118             |     |  |  |
|   | WBR2 (O) | 11                      | 47.2                     | D                       |                          |                         |                              |                             |                     | 20              | 118             |     |  |  |
|   | NBL      | 5                       | 78.7                     | E                       | 31.3                     | C                       |                              |                             | 190                 | 1               | 30              |     |  |  |
|   | NBIT     | 1566                    | 31.2                     | C                       |                          |                         |                              |                             | 1525                | 170             | 500             |     |  |  |
|   | NBOT     | 1765                    | 20.1                     | C                       |                          |                         |                              |                             | 1525                | 89              | 579             |     |  |  |
|   | NBOR     | 3                       | 13.6                     | B                       | 20.0                     | C                       |                              |                             | 1480                | 89              | 579             |     |  |  |
|   | SBL      | 75                      | 70.3                     | E                       |                          |                         |                              |                             | 220                 | 29              | 157             |     |  |  |
|   | SBIT     | 2613                    | 8.9                      | A                       | 8.9                      | A                       |                              |                             | 400                 | 50              | 284             |     |  |  |
|   | SBOT     | 2352                    | 6.9                      | A                       |                          |                         |                              |                             | 415                 | 36              | 448             |     |  |  |
|   | SBOR     | 273                     | 16.9                     | B                       | 8.0                      | A                       |                              |                             | 415                 | 36              | 448             |     |  |  |
| Roosevelt Blvd & Summerdale Ave - Adams Ave | EBL1 (I) | 5                       | 2.0                      | A                       | 47.8                     | D                       | 54.7                         | D                           |                     | 0               | 14              |     |  |  |
|   | EBL2 (O) | 2                       | 3.6                      | A                       |                          |                         |                              |                             |                     | 0               | 6               |     |  |  |
|   | EBT      | 318                     | 43.7                     | D                       |                          |                         |                              |                             | 1700                | 96              | 321             |     |  |  |
|   | EBR1 (I) | 351                     | 50.6                     | D                       |                          |                         |                              |                             | 300                 | 96              | 321             |     |  |  |
|   | EBR2 (O) | 163                     | 51.7                     | D                       |                          |                         |                              |                             | 300                 | 96              | 321             |     |  |  |
|   | WBL1 (I) | 228                     | 0.8                      | A                       | 19.5                     | B                       |                              |                             | 730                 | 0               | 6               |     |  |  |
|   | WBL2 (O) | 336                     | 7.6                      | A                       |                          |                         |                              |                             | 730                 | 0               | 6               |     |  |  |
|   | WBT      | 161                     | 51.6                     | D                       |                          |                         |                              |                             | 120                 | 44              | 436             |     |  |  |
|   | WBR1 (I) | 51                      | 65.6                     | E                       |                          |                         |                              |                             | 730                 | 137             | 443             |     |  |  |
|   | WBR2 (O) | 15                      | 69.7                     | E                       |                          |                         |                              |                             | 730                 | 137             | 443             |     |  |  |
|   | NBL      | 267                     | 302.7                    | F                       | 33.4                     | C                       |                              |                             | 315                 | 352             | 542             |     |  |  |
|   | NBIT     | 1446                    | 33.4                     | C                       |                          |                         |                              |                             | 450                 | 103             | 356             |     |  |  |
|   | NBOT     | 1349                    | 37.9                     | D                       |                          |                         |                              |                             | 450                 | 240             | 602             |     |  |  |
|   | NBOR     | 649                     | 42.7                     | D                       | 39.5                     | D                       |                              |                             | 450                 | 9               | 419             |     |  |  |
|   | SBL      | 68                      | 88.5                     | F                       |                          |                         |                              |                             | 1950                | 35              | 138             |     |  |  |
|   | SBIT     | 2090                    | 56.3                     | E                       | 56.3                     | E                       |                              |                             | 1950                | 271             | 1014            |     |  |  |
|   | SBOT     | 2128                    | 65.8                     | E                       |                          |                         |                              |                             | 1950                | 362             | 613             |     |  |  |
|   | SBOR     | 1                       | 1.2                      | A                       | 65.7                     | E                       |                              |                             | 1950                | 51              | 242             |     |  |  |
| Roosevelt Blvd & Pratt Street               | EBL1 (I) | 0                       | 0.0                      | A                       | 40.3                     | D                       | 12.3                         | B                           |                     | 0               | 0               |     |  |  |
|   | EBL2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 0               | 0               |     |  |  |
|   | EBT      | 108                     | 39.7                     | D                       |                          |                         |                              |                             |                     | 53              | 275             |     |  |  |
|   | EBR1 (I) | 109                     | 41.0                     | D                       |                          |                         |                              |                             |                     | 53              | 275             |     |  |  |
|   | EBR2 (O) | 44                      | 39.9                     | D                       |                          |                         |                              |                             |                     | 53              | 275             |     |  |  |
|   | WBL1 (I) | 78                      | 3.0                      | A                       | 23.8                     | C                       |                              |                             |                     | 4               | 107             |     |  |  |
|   | WBL2 (O) | 102                     | 3.7                      | A                       |                          |                         |                              |                             |                     | 4               | 107             |     |  |  |
|   | WBT      | 278                     | 37.0                     | D                       |                          |                         |                              |                             |                     | 61              | 315             |     |  |  |
|   | WBR1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 61              | 315             |     |  |  |
|   | WBR2 (O) | 0                       | 0.0                      | A                       | 12.2                     | B                       |                              |                             |                     | 61              | 315             |     |  |  |
|   | NBL1     | 20                      | 17.2                     | B                       |                          |                         |                              |                             |                     | 140             | 37              | 296 |  |  |
|   | NBIT     | 1505                    | 12.1                     | B                       | 24.2                     | C                       |                              |                             |                     | 2270            | 37              | 296 |  |  |
|   | NBOT     | 1134                    | 20.9                     | C                       |                          |                         |                              |                             |                     | 2300            | 67              | 473 |  |  |
|   | NBOR     | 358                     | 34.8                     | C                       |                          |                         |                              |                             |                     | 2300            | 67              | 473 |  |  |
|   | SBL      | 0                       | 0.0                      | A                       | 3.9                      | A                       |                              |                             |                     | 500             | 13              | 131 |  |  |
|   | SBIT     | 1988                    | 3.9                      | A                       |                          |                         |                              |                             |                     | 500             | 13              | 131 |  |  |
|   | SBOT     | 1916                    | 5.1                      | A                       | 5.1                      | A                       |                              |                             |                     | 500             | 13              | 162 |  |  |
|   | SBOR     | 5                       | 16.2                     | B                       |                          |                         |                              |                             |                     | 500             | 13              | 162 |  |  |

## 2025 No Build AM

| Intersection                                       | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |     |  |
|--|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|-----|--|
| Roosevelt Blvd & Bridge Street                     | EBL1 (I) | 0                       | 0.0                      | A                       | 46.8                     | D                       | 14.0                         | B                           |                     | 22              | 106             |     |  |
|  | EBL2 (O) | 1                       | 33.6                     | C                       |                          |                         |                              |                             |                     | 22              | 106             |     |  |
|  | EBT      | 147                     | 47.9                     | D                       |                          |                         |                              |                             |                     | 77              | 356             |     |  |
|  | EBR1 (I) | 5                       | 42.3                     | D                       |                          |                         |                              |                             |                     | 77              | 356             |     |  |
|  | EBR2 (O) | 173                     | 46.2                     | D                       |                          |                         |                              |                             |                     | 77              | 356             |     |  |
|  | WBL1 (I) | 4                       | 4.1                      | A                       | 24.9                     | C                       |                              |                             |                     | 3               | 84              |     |  |
|  | WBL2 (O) | 21                      | 5.2                      | A                       |                          |                         |                              |                             |                     | 3               | 84              |     |  |
|  | WBT      | 151                     | 28.3                     | C                       |                          |                         |                              |                             |                     | 25              | 194             |     |  |
|  | WBR1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 25              | 194             |     |  |
|  | WBR2 (O) | 2                       | 17.1                     | B                       |                          |                         |                              |                             |                     | 25              | 194             |     |  |
|  | NBIL1    | 22                      | 13.3                     | B                       | 10.4                     | B                       |                              |                             | 510                 | 25              | 295             |     |  |
|  | NBIT     | 1486                    | 10.4                     | B                       |                          |                         |                              |                             | 510                 | 25              | 295             |     |  |
|  | NBOT     | 1085                    | 8.0                      | A                       | 8.2                      | A                       |                              |                             |                     | 22              | 163             |     |  |
|  | NBOR     | 48                      | 11.1                     | B                       |                          |                         |                              |                             |                     | 22              | 163             |     |  |
|  | SBIL     | 162                     | 17.8                     | B                       | 13.2                     | B                       |                              |                             |                     | 41              | 303             |     |  |
|  | SBIT     | 1981                    | 12.8                     | B                       |                          |                         |                              |                             |                     | 41              | 303             |     |  |
|  | SBOT     | 1727                    | 14.7                     | B                       | 14.8                     | B                       |                              |                             |                     | 45              | 433             |     |  |
|  | SBOR     | 66                      | 16.7                     | B                       |                          |                         |                              |                             |                     | 45              | 433             |     |  |
| Roosevelt Blvd & Sanger St Ped                     | NBOT     | 544                     | 1.8                      | A                       | 1.8                      | A                       | 2.7                          | A                           |                     | 2               | 127             |     |  |
|  | SBOT     | 1796                    | 3.0                      | A                       | 3.0                      | A                       |                              |                             |                     | 10              | 340             |     |  |
|  | SBOR     | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 10              | 340             |     |  |
| Roosevelt Blvd NB & Oxford Circle & Oxford Ave     | EBL      | 78                      | 3.1                      | A                       | 8.7                      | A                       | 28.7                         | C                           |                     | 31              | 236             |     |  |
|  | EBT      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 31              | 236             |     |  |
|  | EBR      | 552                     | 9.5                      | A                       | 8.5                      | A                       |                              |                             |                     | 31              | 236             |     |  |
|  | WBR      | 201                     | 8.5                      | A                       |                          |                         |                              |                             |                     | 4               | 212             |     |  |
|  | NBOT     | 1098                    | 8.6                      | A                       | 8.7                      | A                       |                              |                             |                     | 24              | 148             |     |  |
|  | NBOR     | 130                     | 9.8                      | A                       |                          |                         |                              |                             |                     | 24              | 148             |     |  |
| Roosevelt Blvd NB & Oxford Circle & Cheltenham Ave | NBOHR    | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 24              | 148             |     |  |
|  | WBR      | 148                     | 124.9                    | F                       | 124.9                    | F                       | 21.0                         | C                           |                     | 81              | 241             |     |  |
|  | NBOL     | 252                     | 4.0                      | A                       | 3.1                      | A                       |                              |                             |                     | 5               | 117             |     |  |
|  | NBOT     | 924                     | 2.8                      | A                       |                          |                         |                              |                             |                     | 4               | 112             |     |  |
|  | NBT      | 198                     | 40.4                     | D                       |                          |                         |                              |                             |                     | 147             | 317             |     |  |
| Roosevelt Blvd SB & Oxford Circle                  | NBR      | 231                     | 4.3                      | A                       | 21.0                     | C                       | 5.5                          | A                           |                     | 16              | 257             |     |  |
|  | SBOL     | 70                      | 4.5                      | A                       |                          |                         |                              |                             |                     | 11              | 186             |     |  |
|  | SBOT     | 1450                    | 5.5                      | A                       | 94.5                     | F                       |                              |                             |                     | 19              | 191             |     |  |
|  | SBT      | 659                     | 124.0                    | F                       |                          |                         |                              |                             |                     | 469             | 703             |     |  |
| Roosevelt Blvd SB & Oxford Circle & Castor Ave     | SBR      | 349                     | 38.8                     | D                       | 35.4                     | D                       | 70.2                         | E                           |                     | 510             | 745             |     |  |
|  | EBr      | 639                     | 70.2                     | E                       |                          |                         |                              |                             |                     | 262             | 649             |     |  |
|  | WBL      | 105                     | 8.9                      | A                       |                          |                         |                              |                             |                     | 22              | 229             |     |  |
|  | WBT      | 178                     | 16.4                     | B                       | 16.2                     | B                       |                              |                             |                     | 21              | 227             |     |  |
|  | WBR      | 313                     | 18.5                     | B                       |                          |                         |                              |                             |                     | 26              | 247             |     |  |
|  | SBOT     | 1414                    | 34.6                     | C                       |                          |                         |                              |                             | 425                 | 108             | 356             |     |  |
|  | SBOR     | 158                     | 42.5                     | D                       |                          |                         |                              |                             | 425                 | 108             | 356             |     |  |
| Roosevelt Blvd & Large Street                      | SBOHR    | 0                       | 0.0                      | A                       | 99.7                     | F                       | 13.1                         | B                           |                     | 425             | 108             | 356 |  |
|  | EBl1 (I) | 1                       | 1.4                      | A                       |                          |                         |                              |                             |                     | 14              | 152             |     |  |
|  | EBl2 (O) | 10                      | 47.6                     | D                       |                          |                         |                              |                             |                     | 14              | 149             |     |  |
|  | EBT      | 227                     | 100.4                    | F                       |                          |                         |                              |                             |                     | 299             | 580             |     |  |
|  | EBR1 (I) | 137                     | 103.3                    | F                       | 22.7                     | C                       |                              |                             |                     | 299             | 580             |     |  |
|  | EBR2 (O) | 127                     | 99.2                     | F                       |                          |                         |                              |                             |                     | 299             | 580             |     |  |
|  | WBL1 (I) | 43                      | 3.3                      | A                       | 5.3                      | A                       |                              |                             |                     | 8               | 109             |     |  |
|  | WBL2 (O) | 5                       | 3.8                      | A                       |                          |                         |                              |                             |                     | 8               | 109             |     |  |
|  | WBT      | 187                     | 30.3                     | C                       | 5.5                      | A                       |                              |                             |                     | 60              | 233             |     |  |
|  | WBR1 (I) | 0                       | 6.2                      | A                       |                          |                         |                              |                             |                     | 60              | 233             |     |  |
|  | WBR2 (O) | 68                      | 15.5                     | B                       | 7.6                      | A                       |                              |                             |                     | 60              | 233             |     |  |
|  | NBIL1    | 47                      | 4.6                      | A                       |                          |                         |                              |                             |                     | 12              | 208             |     |  |
|  | NBIT     | 1392                    | 5.3                      | A                       | 3.4                      | A                       |                              |                             |                     | 7               | 167             |     |  |
|  | NBOT     | 1170                    | 5.5                      | A                       |                          |                         |                              |                             |                     | 11              | 100             |     |  |
|  | SBIL     | 132                     | 9.4                      | A                       | 3.4                      | A                       |                              |                             |                     | 15              | 172             |     |  |
|  | SBIT     | 1977                    | 7.5                      | A                       |                          |                         |                              |                             |                     | 15              | 172             |     |  |
|  | SBOT     | 1444                    | 3.4                      | A                       | 3.4                      | A                       |                              |                             |                     | 8               | 126             |     |  |
|  | SBOR     | 52                      | 2.6                      | A                       |                          |                         |                              |                             |                     | 1               | 111             |     |  |

## 2025 No Build AM

| Intersection                      | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|-----------------------------------|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Devereaux Street | EBL1 (I) | 183                     | 5.0                      | A                       | 38.4                     | D                       | 16.7                         | B                           |                     | 2               | 101             |  |  |
|                                   | EBL2 (O) | 45                      | 6.2                      | A                       |                          |                         |                              |                             |                     | 2               | 101             |  |  |
|                                   | EBT      | 500                     | 52.1                     | D                       |                          |                         |                              |                             |                     | 97              | 448             |  |  |
|                                   | EBR1 (I) | 71                      | 48.2                     | D                       | 51.1                     | D                       |                              |                             |                     | 96              | 448             |  |  |
|                                   | EBR2 (O) | 1                       | 35.0                     | D                       |                          |                         |                              |                             |                     | 96              | 448             |  |  |
|                                   | WBL1 (I) | 136                     | 17.9                     | B                       |                          |                         |                              |                             | 570                 | 12              | 133             |  |  |
|                                   | WBL2 (O) | 87                      | 12.7                     | B                       | 19.7                     | B                       |                              |                             | 570                 | 12              | 133             |  |  |
|                                   | WBT      | 456                     | 68.4                     | E                       |                          |                         |                              |                             | 570                 | 137             | 435             |  |  |
|                                   | WBR1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 570                 | 137             | 435             |  |  |
|                                   | NBIL1    | 10                      | 26.1                     | C                       | 13.9                     | B                       |                              |                             |                     | 39              | 442             |  |  |
|                                   | NBIT     | 1376                    | 19.7                     | B                       |                          |                         |                              |                             |                     | 41              | 442             |  |  |
|                                   | NBOT     | 1147                    | 14.0                     | B                       |                          |                         |                              |                             |                     | 29              | 301             |  |  |
|                                   | NBOR     | 100                     | 13.0                     | B                       | 5.4                      | A                       |                              |                             |                     | 29              | 301             |  |  |
|                                   | SBIL     | 4                       | 4.9                      | A                       |                          |                         |                              |                             |                     | 6               | 77              |  |  |
|                                   | SBIT     | 1906                    | 5.4                      | A                       |                          |                         |                              |                             |                     | 6               | 77              |  |  |
|                                   | SBOT     | 1432                    | 4.1                      | A                       | 4.1                      | A                       |                              |                             |                     | 9               | 100             |  |  |
|                                   | SBOR     | 87                      | 3.8                      | A                       |                          |                         |                              |                             |                     | 7               | 103             |  |  |
|                                   | SBOHR    | 48                      | 5                        | A                       |                          |                         |                              |                             |                     | 7               | 103             |  |  |
|                                   | SEBR     | 0                       | 0                        | A                       | 0.0                      | A                       |                              |                             |                     | 0               | 0               |  |  |
| Roosevelt Blvd & Bustleton Ave    | EBL1 (I) | 0                       | 0.0                      | A                       | 12.4                     | B                       | 23.9                         | C                           |                     | 28              | 169             |  |  |
|                                   | EBL2 (O) | 9                       | 3.4                      | A                       |                          |                         |                              |                             |                     | 28              | 169             |  |  |
|                                   | EBT      | 460                     | 8.6                      | A                       |                          |                         |                              |                             |                     | 38              | 177             |  |  |
|                                   | EBR1 (I) | 195                     | 18.7                     | B                       | 11.2                     | B                       |                              |                             |                     | 38              | 177             |  |  |
|                                   | EBR2 (O) | 101                     | 18.2                     | B                       |                          |                         |                              |                             |                     | 38              | 177             |  |  |
|                                   | WBL1 (I) | 4                       | 33.3                     | C                       | 49.7                     | D                       |                              |                             | 65                  | 46              | 214             |  |  |
|                                   | WBL2 (O) | 18                      | 9.9                      | A                       |                          |                         |                              |                             | 65                  | 47              | 214             |  |  |
|                                   | WBT      | 236                     | 13.7                     | B                       |                          |                         |                              |                             |                     | 14              | 104             |  |  |
|                                   | WBR1 (I) | 49                      | 7.4                      | A                       | 16.7                     | B                       |                              |                             |                     | 14              | 104             |  |  |
|                                   | WBR2 (O) | 74                      | 5.1                      | A                       |                          |                         |                              |                             |                     | 14              | 104             |  |  |
|                                   | NBIL1    | 244                     | 67.8                     | E                       |                          |                         |                              |                             | 200                 | 118             | 425             |  |  |
|                                   | NBIT     | 1160                    | 45.9                     | D                       | 42.8                     | D                       |                              |                             |                     | 118             | 425             |  |  |
|                                   | NBOT     | 827                     | 42.8                     | D                       |                          |                         |                              |                             |                     | 105             | 365             |  |  |
|                                   | SBIL     | 229                     | 32.3                     | C                       |                          |                         |                              |                             |                     | 83              | 267             |  |  |
|                                   | SBIT     | 1714                    | 14.6                     | B                       | 6.5                      | A                       |                              |                             |                     | 75              | 254             |  |  |
|                                   | SBOT     | 1380                    | 6.5                      | A                       |                          |                         |                              |                             |                     | 19              | 134             |  |  |
| Bustleton Ave & Robbins Street    | EBL      | 86                      | 2.2                      | A                       | 0.6                      | A                       | 19.3                         | B                           |                     | 1               | 62              |  |  |
|                                   | EBT      | 593                     | 0.4                      | A                       |                          |                         |                              |                             |                     | 1               | 73              |  |  |
|                                   | WBT      | 359                     | 31.4                     | C                       |                          |                         |                              |                             |                     | 48              | 219             |  |  |
|                                   | WBR      | 1                       | 14.5                     | B                       | 31.4                     | C                       |                              |                             |                     | 48              | 219             |  |  |
|                                   | NBL      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 82              | 334             |  |  |
|                                   | NBT      | 491                     | 36.2                     | D                       | 36.2                     | D                       |                              |                             |                     | 82              | 334             |  |  |
| Bustleton Ave & Levick Street     | NBR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 82              | 334             |  |  |
|                                   | EBT      | 747                     | 67.3                     | E                       | 67.5                     | E                       | 30.6                         | C                           |                     | 225             | 591             |  |  |
|                                   | EBR      | 7                       | 88.5                     | F                       |                          |                         |                              |                             |                     | 225             | 591             |  |  |
|                                   | WBL      | 49                      | 11.9                     | B                       | 1.5                      | A                       |                              |                             |                     | 2               | 99              |  |  |
|                                   | WBT      | 410                     | 0.3                      | A                       |                          |                         |                              |                             |                     | 2               | 99              |  |  |
|                                   | SBL      | 9                       | 6.4                      | A                       | 5.0                      | A                       |                              |                             |                     | 22              | 96              |  |  |
| Roosevelt Blvd & Levick St        | SBT      | 488                     | 4.9                      | A                       |                          |                         |                              |                             |                     | 22              | 96              |  |  |
|                                   | SBR      | 69                      | 5.5                      | A                       |                          |                         |                              |                             |                     | 22              | 96              |  |  |
|                                   | WBL1 (I) | 586                     | 30.8                     | C                       | 32.7                     | C                       | 32.1                         | C                           |                     | 82              | 455             |  |  |
|                                   | WBL2 (O) | 625                     | 34.4                     | C                       |                          |                         |                              |                             |                     | 73              | 442             |  |  |
|                                   | WBR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 76              | 449             |  |  |
|                                   | NBIT     | 1208                    | 9.8                      | A                       | 9.8                      | A                       |                              |                             |                     | 25              | 367             |  |  |
|                                   | NBOT     | 910                     | 12.1                     | B                       |                          |                         |                              |                             |                     | 31              | 296             |  |  |
|                                   | SBIT     | 1349                    | 51.1                     | D                       | 51.1                     | D                       |                              |                             |                     | 169             | 545             |  |  |
|                                   | SBOT     | 1316                    | 46.7                     | D                       |                          |                         |                              |                             |                     | 147             | 502             |  |  |

## 2025 No Build AM

| Intersection                       | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|------------------------------------|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Haribson Ave      | EBL1 (I) | 56                      | 5.8                      | A                       | 26.7                     | C                       | 26.5                         | C                           |                     | 40              | 192             |  |  |
|                                    | EBL2 (O) | 30                      | 6.2                      | A                       |                          |                         |                              |                             |                     | 40              | 192             |  |  |
|                                    | EBT      | 680                     | 29.3                     | C                       |                          |                         |                              |                             |                     | 48              | 194             |  |  |
|                                    | EBR1 (I) | 17                      | 27.5                     | C                       |                          |                         |                              |                             |                     | 48              | 194             |  |  |
|                                    | EBR2 (O) | 1                       | 3.6                      | A                       |                          |                         |                              |                             |                     | 48              | 194             |  |  |
|                                    | WBL1 (I) | 142                     | 9.7                      | A                       | 26.2                     | C                       |                              |                             |                     | 12              | 168             |  |  |
|                                    | WBL2 (O) | 137                     | 7.1                      | A                       |                          |                         |                              |                             |                     | 12              | 168             |  |  |
|                                    | WBT      | 609                     | 40.7                     | D                       |                          |                         |                              |                             |                     | 95              | 322             |  |  |
|                                    | WBR1 (I) | 96                      | 34.7                     | C                       |                          |                         |                              |                             |                     | 95              | 322             |  |  |
|                                    | WBR2 (O) | 289                     | 9.8                      | A                       |                          |                         |                              |                             |                     | 1               | 122             |  |  |
|                                    | NBIL     | 10                      | 45.7                     | D                       | 40.6                     | D                       |                              |                             |                     | 95              | 372             |  |  |
|                                    | NBIT     | 1211                    | 40.6                     | D                       |                          |                         |                              |                             |                     | 95              | 372             |  |  |
|                                    | NBOT     | 845                     | 35.1                     | D                       |                          |                         |                              |                             |                     | 88              | 323             |  |  |
|                                    | NBOR     | 53                      | 3.4                      | A                       |                          |                         |                              |                             |                     | 3               | 206             |  |  |
|                                    | SBIL     | 438                     | 82.6                     | F                       | 26.6                     | C                       |                              |                             |                     | 206             | 466             |  |  |
|                                    | SBIT     | 1221                    | 6.5                      | A                       |                          |                         |                              |                             |                     | 14              | 257             |  |  |
|                                    | SBOT     | 1230                    | 8.7                      | A                       |                          |                         |                              |                             |                     | 34              | 400             |  |  |
|                                    | SBOR     | 63                      | 5.7                      | A                       | 8.5                      | A                       |                              |                             |                     | 34              | 400             |  |  |
| Roosevelt Blvd & Unruh Ave Ped     | WBR      | 10                      | 0.9                      | A                       | 0.9                      | A                       | 11.1                         | B                           |                     | 0               | 25              |  |  |
|                                    | NBIT     | 1336                    | 6.4                      | A                       | 6.4                      | A                       |                              |                             |                     | 12              | 219             |  |  |
|                                    | NBOT     | 1122                    | 2.6                      | A                       | 2.7                      | A                       |                              |                             |                     | 6               | 104             |  |  |
|                                    | NBOR     | 69                      | 3.9                      | A                       |                          |                         |                              |                             |                     | 6               | 104             |  |  |
|                                    | SBIT     | 1670                    | 22.4                     | C                       | 22.4                     | C                       |                              |                             |                     | 134             | 736             |  |  |
|                                    | SBOT     | 1297                    | 9.3                      | A                       | 9.2                      | A                       |                              |                             |                     | 31              | 488             |  |  |
|                                    | SBOR     | 20                      | 6.2                      | A                       |                          |                         |                              |                             |                     | 31              | 488             |  |  |
| Roosevelt Blvd & Longshore Ave Ped | WBR      | 20                      | 4.5                      | A                       | 4.5                      | A                       | 7.2                          | A                           |                     | 0               | 37              |  |  |
|                                    | NBIT     | 1336                    | 6.4                      | A                       | 6.4                      | A                       |                              |                             |                     | 12              | 219             |  |  |
|                                    | NBOT     | 1151                    | 11.0                     | B                       | 11.0                     | B                       |                              |                             |                     | 25              | 402             |  |  |
|                                    | NBOR     | 4                       | 9.9                      | A                       |                          |                         |                              |                             |                     | 29              | 431             |  |  |
|                                    | EBR      | 1                       | 3.4                      | A                       |                          |                         |                              |                             |                     | 0               | 29              |  |  |
|                                    | SBIT     | 1686                    | 7.6                      | A                       | 7.6                      | A                       |                              |                             |                     | 27              | 521             |  |  |
|                                    | SBOT     | 1314                    | 4.3                      | A                       | 4.3                      | A                       |                              |                             |                     | 24              | 279             |  |  |
|                                    | SBOR     | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 26              | 292             |  |  |
| Roosevelt Blvd & Tyson Ave         | EBL1 (I) | 131                     | 8.3                      | A                       | 28.1                     | C                       | 24.1                         | C                           |                     | 32              | 149             |  |  |
|                                    | EBL2 (O) | 0                       | 0.4                      | A                       |                          |                         |                              |                             |                     | 32              | 149             |  |  |
|                                    | EBT      | 451                     | 33.9                     | C                       |                          |                         |                              |                             |                     | 51              | 314             |  |  |
|                                    | EBR1 (I) | 9                       | 29.1                     | C                       | 52.3                     | D                       |                              |                             |                     | 51              | 314             |  |  |
|                                    | EBR2 (O) | 2                       | 26.6                     | C                       |                          |                         |                              |                             |                     | 51              | 314             |  |  |
|                                    | WBL1 (I) | 68                      | 7.2                      | A                       | 52.3                     | D                       |                              |                             |                     | 24              | 189             |  |  |
|                                    | WBL2 (O) | 227                     | 6.8                      | A                       |                          |                         |                              |                             |                     | 24              | 189             |  |  |
|                                    | WBT      | 621                     | 70.2                     | E                       |                          |                         |                              |                             |                     | 186             | 504             |  |  |
|                                    | WBR1 (I) | 123                     | 68.9                     | E                       | 15.7                     | B                       |                              |                             |                     | 186             | 504             |  |  |
|                                    | WBR2 (O) | 83                      | 55.8                     | E                       |                          |                         |                              |                             |                     | 39              | 384             |  |  |
|                                    | NBIL1    | 105                     | 28.5                     | C                       |                          |                         |                              |                             |                     | 39              | 384             |  |  |
|                                    | NBIT     | 1233                    | 14.6                     | B                       | 15.2                     | B                       |                              |                             |                     | 460             | 51              |  |  |
|                                    | NBOT     | 1040                    | 14.9                     | B                       |                          |                         |                              |                             |                     | 460             | 51              |  |  |
|                                    | NBOR     | 134                     | 17.4                     | B                       |                          |                         |                              |                             |                     | 790             | 74              |  |  |
|                                    | SBIL     | 218                     | 51.0                     | D                       | 22.1                     | C                       |                              |                             |                     | 790             | 437             |  |  |
|                                    | SBIT     | 1611                    | 18.2                     | B                       |                          |                         |                              |                             |                     | 46              | 303             |  |  |
|                                    | SBOT     | 1086                    | 15.9                     | B                       |                          |                         |                              |                             |                     | 46              | 303             |  |  |
|                                    | SBOR     | 6                       | 16.4                     | B                       | 15.9                     | B                       |                              |                             |                     | 10              | 241             |  |  |
| Roosevelt Blvd & Friendship St Ped | NBIT     | 1359                    | 4.6                      | A                       | 4.6                      | A                       | 7.0                          | A                           |                     | 8               | 264             |  |  |
|                                    | NBOT     | 1166                    | 5.1                      | A                       | 5.1                      | A                       |                              |                             |                     | 11              | 367             |  |  |
|                                    | SBIT     | 1689                    | 13.1                     | B                       | 13.1                     | B                       |                              |                             |                     | 26              | 426             |  |  |
|                                    | SBOT     | 1233                    | 2.9                      | A                       | 2.9                      | A                       |                              |                             |                     | 9               | 229             |  |  |
|                                    | SBOR     | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 10              | 241             |  |  |
| Roosevelt Blvd & Cottman Ave       | EBL      | 153                     | 13.2                     | B                       | 19.4                     | B                       | 20.3                         | C                           |                     | 16              | 159             |  |  |
|                                    | EBT      | 739                     | 20.1                     | C                       |                          |                         |                              |                             |                     | 47              | 222             |  |  |
|                                    | EBR      | 121                     | 23.2                     | C                       |                          |                         |                              |                             |                     | 47              | 223             |  |  |
|                                    | WBL      | 245                     | 10.1                     | B                       | 22.3                     | C                       |                              |                             |                     | 24              | 192             |  |  |
|                                    | WBT      | 925                     | 24.8                     | C                       |                          |                         |                              |                             |                     | 57              | 270             |  |  |
|                                    | WBR      | 126                     | 27.4                     | C                       |                          |                         |                              |                             |                     | 57              | 270             |  |  |
|                                    | NBL      | 366                     | 34.3                     | C                       | 24.0                     | C                       |                              |                             |                     | 72              | 418             |  |  |
|                                    | NBT      | 724                     | 19.4                     | B                       |                          |                         |                              |                             |                     | 72              | 418             |  |  |
|                                    | NBR      | 91                      | 18.8                     | B                       |                          |                         |                              |                             |                     | 49              | 251             |  |  |
|                                    | SBL      | 179                     | 16.4                     | B                       | 15.2                     | B                       |                              |                             |                     | 49              | 251             |  |  |
|                                    | SBT      | 872                     | 14.1                     | B                       |                          |                         |                              |                             |                     | 49              | 251             |  |  |
|                                    | SBR      | 101                     | 22.0                     | C                       |                          |                         |                              |                             |                     | 49              | 251             |  |  |

## 2025 No Build AM

| Intersection                            | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|---|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Borbeck Ave - Ryan Ave | EBL1 (I)  | 22                      | 41.1                     | D                       | 36.6                     | D                       | 30.3                         | C                           |                     | 51              | 314             |  |  |
|   | EBL2 (O)  | 76                      | 40.6                     | D                       |                          |                         |                              |                             |                     | 51              | 314             |  |  |
|   | EBT       | 130                     | 35.5                     | D                       |                          |                         |                              |                             |                     | 51              | 314             |  |  |
|   | EBR1 (I)  | 73                      | 32.9                     | C                       |                          |                         |                              |                             |                     | 51              | 314             |  |  |
|   | EBR2 (O)  | 2                       | 36.5                     | D                       |                          |                         |                              |                             |                     | 51              | 314             |  |  |
|   | WBL1 (I)  | 46                      | 36.0                     | D                       | 36.4                     | D                       |                              |                             |                     | 73              | 361             |  |  |
|   | WBL2 (O)  | 86                      | 39.3                     | D                       |                          |                         |                              |                             |                     | 73              | 361             |  |  |
|   | WBT       | 249                     | 37.0                     | D                       |                          |                         |                              |                             |                     | 73              | 361             |  |  |
|   | WBR1 (I)  | 69                      | 32.1                     | C                       |                          |                         |                              |                             |                     | 73              | 361             |  |  |
|   | WBR2 (O)  | 40                      | 33.6                     | C                       | 53.2                     | D                       |                              |                             |                     | 76              | 365             |  |  |
|   | NBIU1 (I) | 14                      | 267.4                    | F                       |                          |                         |                              |                             |                     | 340             | 212             |  |  |
|   | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 340             | 212             |  |  |
|   | NBIL      | 101                     | 288.3                    | F                       |                          |                         |                              |                             |                     | 340             | 212             |  |  |
|   | NBIT      | 1298                    | 32.6                     | C                       |                          |                         |                              |                             |                     | 87              | 576             |  |  |
|   | NBOT      | 862                     | 37.1                     | D                       | 37.3                     | D                       |                              |                             |                     | 93              | 506             |  |  |
|   | NBOR      | 67                      | 40.1                     | D                       |                          |                         |                              |                             |                     | 93              | 506             |  |  |
|   | SBIL      | 34                      | 66.7                     | E                       |                          |                         |                              |                             |                     | 315             | 12              |  |  |
|   | SBIT      | 1498                    | 9.7                      | A                       | 11.0                     | B                       |                              |                             |                     | 30              | 215             |  |  |
|   | SBOT      | 991                     | 16.2                     | B                       |                          |                         |                              |                             |                     | 50              | 215             |  |  |
|   | SBOR      | 9                       | 17.9                     | B                       | 16.3                     | B                       |                              |                             |                     | 50              | 215             |  |  |
| Roosevelt Blvd & Rhawn St               | EBL1 (I)  | 29                      | 47.7                     | D                       | 40.3                     | D                       | 19.9                         | B                           |                     | 86              | 424             |  |  |
|   | EBL2 (O)  | 96                      | 45.9                     | D                       |                          |                         |                              |                             |                     | 86              | 424             |  |  |
|   | EBT       | 274                     | 39.3                     | D                       |                          |                         |                              |                             |                     | 86              | 424             |  |  |
|   | EBR1 (I)  | 74                      | 35.5                     | D                       |                          |                         |                              |                             |                     | 86              | 424             |  |  |
|   | EBR2 (O)  | 57                      | 38.4                     | D                       |                          |                         |                              |                             |                     | 86              | 424             |  |  |
|   | WBL1 (I)  | 86                      | 45.8                     | D                       | 41.0                     | D                       |                              |                             |                     | 64              | 269             |  |  |
|   | WBL2 (O)  | 63                      | 50.5                     | D                       |                          |                         |                              |                             |                     | 64              | 269             |  |  |
|   | WBT       | 304                     | 38.2                     | D                       |                          |                         |                              |                             |                     | 64              | 269             |  |  |
|   | WBR1 (I)  | 74                      | 38.6                     | D                       |                          |                         |                              |                             |                     | 64              | 269             |  |  |
|   | WBR2 (O)  | 5                       | 38.2                     | D                       | 16.7                     | B                       |                              |                             |                     | 64              | 269             |  |  |
|   | NBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 14              | 123             |  |  |
|   | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 14              | 123             |  |  |
|   | NBIL      | 79                      | 34.8                     | C                       |                          |                         |                              |                             |                     | 14              | 123             |  |  |
|   | NBIT      | 1304                    | 15.6                     | B                       |                          |                         |                              |                             |                     | 41              | 264             |  |  |
|   | NBOT      | 936                     | 15.7                     | B                       | 15.8                     | B                       |                              |                             |                     | 44              | 256             |  |  |
|   | NBOR      | 44                      | 18.8                     | B                       |                          |                         |                              |                             |                     | 45              | 259             |  |  |
|   | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 350             | 36              |  |  |
|   | SIU2 (O)  | 11                      | 74.4                     | E                       | 19.4                     | B                       |                              |                             |                     | 350             | 36              |  |  |
|   | SBIL      | 83                      | 73.9                     | E                       |                          |                         |                              |                             |                     | 350             | 36              |  |  |
|   | SBIT      | 1386                    | 15.7                     | B                       |                          |                         |                              |                             |                     | 33              | 353             |  |  |
|   | SBOT      | 884                     | 6.0                      | A                       | 5.9                      | A                       |                              |                             |                     | 29              | 226             |  |  |
|   | SBOR      | 24                      | 2.6                      | A                       |                          |                         |                              |                             |                     | 30              | 230             |  |  |
| Roosevelt Blvd & Holme Ave - Solly Ave  | EBL       | 20                      | 25.2                     | C                       | 41.2                     | D                       | 30.1                         | C                           |                     | 43              | 243             |  |  |
|   | EBT       | 316                     | 42.2                     | D                       |                          |                         |                              |                             |                     | 48              | 186             |  |  |
|   | EBR       | 1                       | 29.9                     | C                       |                          |                         |                              |                             |                     | 48              | 186             |  |  |
|   | WBL       | 276                     | 37.0                     | D                       | 30.9                     | C                       |                              |                             |                     | 41              | 260             |  |  |
|   | WBT       | 326                     | 28.3                     | C                       |                          |                         |                              |                             |                     | 42              | 260             |  |  |
|   | WBR       | 127                     | 24.2                     | C                       |                          |                         |                              |                             |                     | 4               | 129             |  |  |
|   | NBL       | 32                      | 24.7                     | C                       | 30.6                     | C                       |                              |                             |                     | 82              | 338             |  |  |
|   | NBT       | 806                     | 30.9                     | C                       |                          |                         |                              |                             |                     | 82              | 338             |  |  |
|   | NBR       | 185                     | 30.1                     | C                       |                          |                         |                              |                             |                     | 82              | 338             |  |  |
|   | SBL       | 291                     | 27.0                     | C                       | 25.2                     | C                       |                              |                             |                     | 61              | 458             |  |  |
|   | SBT       | 690                     | 24.5                     | C                       |                          |                         |                              |                             |                     | 60              | 454             |  |  |
|   | SBR       | 0                       | 3.7                      | A                       |                          |                         |                              |                             |                     | 60              | 454             |  |  |
| Roosevelt Blvd & Strahle St             | EBL1 (I)  | 79                      | 45.0                     | D                       | 43.2                     | D                       | 10.1                         | B                           |                     | 34              | 150             |  |  |
|   | EBR1 (I)  | 70                      | 40.8                     | D                       |                          |                         |                              |                             |                     | 34              | 150             |  |  |
|   | EBR2 (O)  | 67                      | 43.5                     | D                       |                          |                         |                              |                             |                     | 34              | 150             |  |  |
|   | WBR       | 9                       | 1.2                      | A                       | 1.2                      | A                       |                              |                             |                     | 0               | 25              |  |  |
|   | NBIU2 (O) | 9                       | 72.3                     | E                       |                          |                         |                              |                             |                     | 16              | 115             |  |  |
|   | NBIL      | 74                      | 36.2                     | D                       |                          |                         |                              |                             |                     | 16              | 115             |  |  |
|   | NBIT      | 1321                    | 2.7                      | A                       | 7.9                      | A                       |                              |                             |                     | 16              | 115             |  |  |
|   | NBOT      | 963                     | 7.9                      | A                       |                          |                         |                              |                             |                     | 1               | 91              |  |  |
|   | NBOR      | 16                      | 8.4                      | A                       |                          |                         |                              |                             |                     | 20              | 286             |  |  |
|   | SBIT      | 1410                    | 10.4                     | B                       | 10.4                     | B                       |                              |                             |                     | 30              | 188             |  |  |
|   | SBOT      | 810                     | 11.9                     | B                       |                          |                         |                              |                             |                     | 26              | 179             |  |  |
|   | SBOR      | 26                      | 31.4                     | C                       | 12.5                     | B                       |                              |                             |                     | 26              | 179             |  |  |

## 2025 No Build AM

| Intersection                 | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|------------------------------|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Woodward St | EBL1 (I)  | 4                       | 43.9                     | D                       | 49.6                     | D                       | 22.6                         | C                           |                     | 46              | 227             |  |  |
|                              | EBL2 (O)  | 119                     | 50.6                     | D                       |                          |                         |                              |                             |                     | 46              | 227             |  |  |
|                              | EBT       | 1                       | 46.2                     | D                       |                          |                         |                              |                             |                     | 46              | 227             |  |  |
|                              | EBR1 (I)  | 72                      | 48.4                     | D                       |                          |                         |                              |                             |                     | 46              | 227             |  |  |
|                              | EBR2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 46              | 227             |  |  |
|                              | WBL1 (I)  | 48                      | 37.3                     | D                       | 36.6                     | D                       |                              |                             | 230                 | 30              | 185             |  |  |
|                              | WBL2 (O)  | 59                      | 39.8                     | D                       |                          |                         |                              |                             | 230                 | 30              | 185             |  |  |
|                              | WBT       | 114                     | 35.1                     | D                       |                          |                         |                              |                             | 230                 | 30              | 185             |  |  |
|                              | WBR1 (I)  | 24                      | 38.0                     | D                       |                          |                         |                              |                             | 230                 | 30              | 185             |  |  |
|                              | WBR2 (O)  | 8                       | 25.5                     | C                       |                          |                         |                              |                             | 230                 | 30              | 185             |  |  |
|                              | NBIU1 (I) | 17                      | 87.3                     | F                       | 19.7                     | B                       |                              |                             |                     | 90              | 446             |  |  |
|                              | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 0               | 0               |  |  |
|                              | NBIL      | 56                      | 117.4                    | F                       |                          |                         |                              |                             |                     | 90              | 446             |  |  |
|                              | NBIT      | 1304                    | 14.6                     | B                       |                          |                         |                              |                             |                     | 90              | 446             |  |  |
|                              | NBOT      | 844                     | 30.6                     | C                       | 31.9                     | C                       |                              |                             |                     | 78              | 505             |  |  |
|                              | NBOR      | 52                      | 52.9                     | D                       |                          |                         |                              |                             |                     | 78              | 505             |  |  |
|                              | SBIU1 (I) | 0                       | 0.0                      | A                       | 18.0                     | B                       |                              |                             |                     | 220             | 205             |  |  |
|                              | SIU2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 220             | 0               |  |  |
|                              | SBIL      | 7                       | 79.1                     | E                       |                          |                         |                              |                             |                     | 220             | 205             |  |  |
|                              | SBIT      | 1282                    | 17.6                     | B                       |                          |                         |                              |                             |                     | 55              | 205             |  |  |
|                              | SBOT      | 680                     | 13.3                     | B                       | 13.1                     | B                       |                              |                             |                     | 28              | 155             |  |  |
|                              | SBOR      | 47                      | 10.2                     | B                       |                          |                         |                              |                             |                     | 28              | 155             |  |  |
| Roosevelt Blvd & Welsh Rd    | EBL1 (I)  | 4                       | 38.1                     | D                       | 40.7                     | D                       | 40.9                         | D                           |                     | 76              | 423             |  |  |
|                              | EBL2 (O)  | 34                      | 48.2                     | D                       |                          |                         |                              |                             |                     | 76              | 423             |  |  |
|                              | EBT       | 278                     | 39.6                     | D                       |                          |                         |                              |                             |                     | 76              | 423             |  |  |
|                              | EBR1 (I)  | 155                     | 41.5                     | D                       |                          |                         |                              |                             |                     | 76              | 423             |  |  |
|                              | EBR2 (O)  | 53                      | 39.9                     | D                       |                          |                         |                              |                             |                     | 76              | 423             |  |  |
|                              | WBL1 (I)  | 46                      | 44.1                     | D                       | 39.6                     | D                       |                              |                             |                     | 63              | 239             |  |  |
|                              | WBL2 (O)  | 87                      | 46.6                     | D                       |                          |                         |                              |                             |                     | 63              | 239             |  |  |
|                              | WBT       | 368                     | 37.6                     | D                       |                          |                         |                              |                             |                     | 63              | 239             |  |  |
|                              | WBR1 (I)  | 18                      | 35.1                     | D                       |                          |                         |                              |                             |                     | 63              | 239             |  |  |
|                              | WBR2 (O)  | 19                      | 40.6                     | D                       |                          |                         |                              |                             |                     | 63              | 239             |  |  |
|                              | NBIU1 (I) | 23                      | 69.5                     | E                       | 65.1                     | E                       |                              |                             |                     | 161             | 476             |  |  |
|                              | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 161             | 476             |  |  |
|                              | NBIL      | 165                     | 71.0                     | E                       |                          |                         |                              |                             |                     | 161             | 476             |  |  |
|                              | NBIT      | 1140                    | 64.1                     | E                       | 61.9                     | E                       |                              |                             |                     | 161             | 476             |  |  |
|                              | NBOT      | 916                     | 65.8                     | E                       |                          |                         |                              |                             |                     | 185             | 563             |  |  |
|                              | NBOR      | 119                     | 31.2                     | C                       |                          |                         |                              |                             |                     | 185             | 563             |  |  |
|                              | SIU2 (O)  | 0                       | 0.0                      | A                       | 13.2                     | B                       |                              |                             |                     | 37              | 177             |  |  |
|                              | SBIL      | 59                      | 81.3                     | F                       |                          |                         |                              |                             |                     | 37              | 177             |  |  |
|                              | SBIT      | 1090                    | 9.6                      | A                       |                          |                         |                              |                             |                     | 37              | 177             |  |  |
|                              | SBOT      | 592                     | 5.7                      | A                       | 5.7                      | A                       |                              |                             |                     | 22              | 172             |  |  |
|                              | SBOR      | 8                       | 2.7                      | A                       |                          |                         |                              |                             |                     | 22              | 172             |  |  |
| Roosevelt Blvd & Goodnow St  | EBL1 (I)  | 14                      | 25.5                     | C                       | 31.2                     | C                       | 23.2                         | C                           |                     | 18              | 133             |  |  |
|                              | EBL2 (O)  | 92                      | 32.5                     | C                       |                          |                         |                              |                             |                     | 18              | 133             |  |  |
|                              | EBT       | 1                       | 11.3                     | B                       |                          |                         |                              |                             |                     | 18              | 133             |  |  |
|                              | EBR1 (I)  | 34                      | 31.2                     | C                       |                          |                         |                              |                             |                     | 18              | 133             |  |  |
|                              | EBR2 (O)  | 23                      | 30.2                     | C                       |                          |                         |                              |                             |                     | 18              | 133             |  |  |
|                              | WBL1 (I)  | 15                      | 29.3                     | C                       | 28.0                     | C                       |                              |                             |                     | 4               | 53              |  |  |
|                              | WBL2 (O)  | 2                       | 40.3                     | D                       |                          |                         |                              |                             |                     | 4               | 53              |  |  |
|                              | WBT       | 0                       | 13.1                     | B                       |                          |                         |                              |                             |                     | 4               | 53              |  |  |
|                              | WBR1 (I)  | 25                      | 27.8                     | C                       |                          |                         |                              |                             |                     | 4               | 53              |  |  |
|                              | WBR2 (O)  | 3                       | 15.6                     | B                       |                          |                         |                              |                             |                     | 1               | 55              |  |  |
|                              | NBIU1 (I) | 0                       | 0.0                      | A                       | 35.7                     | D                       |                              |                             |                     | 81              | 306             |  |  |
|                              | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 81              | 306             |  |  |
|                              | NBIL      | 21                      | 56.4                     | E                       |                          |                         |                              |                             |                     | 81              | 306             |  |  |
|                              | NBIT      | 1139                    | 35.4                     | D                       | 35.4                     | D                       |                              |                             |                     | 81              | 306             |  |  |
|                              | NBOT      | 959                     | 35.4                     | D                       |                          |                         |                              |                             |                     | 109             | 303             |  |  |
|                              | NBOR      | 10                      | 36.5                     | D                       | 5.5                      | A                       |                              |                             |                     | 109             | 303             |  |  |
|                              | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 12              | 95              |  |  |
|                              | SIU2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 12              | 95              |  |  |
|                              | SBIL      | 44                      | 30.6                     | C                       |                          |                         |                              |                             | 220                 | 12              | 95              |  |  |
|                              | SBIT      | 1101                    | 4.5                      | A                       |                          |                         |                              |                             |                     | 12              | 95              |  |  |
|                              | SBOT      | 576                     | 9.1                      | A                       | 11.2                     | B                       |                              |                             |                     | 24              | 162             |  |  |
|                              | SBOR      | 48                      | 35.9                     | D                       |                          |                         |                              |                             |                     | 22              | 162             |  |  |

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| Intersection                               | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |  |
|--|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|--|
| Roosevelt Blvd & Grant Ave                 | EBL1 (I)  | 40                      | 48.0                     | D                       | 34.4                     | C                       | 49.4                         | D                           | 75                  | 299             |                 |  |  |  |
|  | EBL2 (O)  | 103                     | 49.4                     | D                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | EBT       | 734                     | 31.7                     | C                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | EBR1 (I)  | 57                      | 33.3                     | C                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | EBR2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | WBL1 (I)  | 34                      | 45.5                     | D                       | 34.5                     | C                       |                              |                             |                     |                 |                 |  |  |  |
|  | WBL2 (O)  | 110                     | 49.0                     | D                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | WBT       | 852                     | 32.8                     | C                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | WBR1 (I)  | 106                     | 30.4                     | C                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | WBR2 (O)  | 12                      | 31.0                     | C                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       | 50.8                     | D                       |                              |                             |                     |                 |                 |  |  |  |
|  | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | NBIL      | 159                     | 51.4                     | D                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | NBIT      | 1016                    | 50.7                     | D                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | NBOT      | 844                     | 55.7                     | E                       | 55.6                     | E                       |                              |                             |                     |                 |                 |  |  |  |
|  | NBOR      | 200                     | 55.0                     | D                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | SBIU1 (I) | 1                       | 53.6                     | D                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | SIU2 (O)  | 30                      | 59.9                     | E                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | SBIL      | 288                     | 55.4                     | E                       | 62.6                     | E                       |                              |                             |                     |                 |                 |  |  |  |
|  | SBIT      | 1055                    | 64.7                     | E                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | SBOT      | 457                     | 55.5                     | E                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | SBOR      | 42                      | 79.0                     | E                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
| Roosevelt Blvd & Whitman Plaza - Fulmer St | EBR       | 39                      | 1.2                      | A                       | 1.2                      | A                       | 15.1                         | B                           | 0                   | 34              |                 |  |  |  |
|  | WBL       | 2                       | 32.2                     | C                       | 34.7                     | C                       |                              |                             |                     |                 |                 |  |  |  |
|  | WBR1 (I)  | 50                      | 34.8                     | C                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | WBR2 (O)  | 39                      | 34.7                     | C                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | NBIU      | 30                      | 24.5                     | C                       | 18.5                     | B                       |                              |                             |                     |                 |                 |  |  |  |
|  | NBIT      | 1136                    | 18.4                     | B                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | NBOT      | 894                     | 21.6                     | C                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | NBOR      | 93                      | 24.9                     | C                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       | 21.9                     | C                       |                              |                             |                     |                 |                 |  |  |  |
|  | SBIU2 (O) | 56                      | 40.9                     | D                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | SBIL      | 62                      | 39.4                     | D                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | SBIT      | 1341                    | 7.4                      | A                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | SBOT      | 471                     | 5.5                      | A                       | 5.5                      | A                       |                              |                             |                     |                 |                 |  |  |  |
|  | SBOR      | 4                       | 2.4                      | A                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
| Roosevelt Blvd & Lott Street               | EBL1 (I)  | 83                      | 33.5                     | C                       | 34.0                     | C                       | 18.0                         | B                           | 27                  | 190             |                 |  |  |  |
|  | EBR1 (I)  | 116                     | 34.4                     | C                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | EBR2 (O)  | 10                      | 32.3                     | C                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | NBIU2 (O) | 0                       | 0.0                      | A                       | 8.8                      | A                       |                              |                             |                     |                 |                 |  |  |  |
|  | NBIL      | 55                      | 69.6                     | E                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | NBIT      | 1141                    | 5.9                      | A                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | NBOT      | 999                     | 5.2                      | A                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       | 29.9                     | C                       |                              |                             |                     |                 |                 |  |  |  |
|  | SBIT      | 1345                    | 29.9                     | C                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | SBOT      | 467                     | 27.6                     | C                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | SBOR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
| Roosevelt Blvd & Bowler St Ped             | EBR       | 92                      | 4.8                      | A                       | 4.8                      | A                       | 7.2                          | A                           | 2                   | 70              |                 |  |  |  |
|  | NBIT      | 1221                    | 8.7                      | A                       | 8.7                      | A                       |                              |                             |                     |                 |                 |  |  |  |
|  | NBOT      | 998                     | 4.6                      | A                       | 4.6                      | A                       |                              |                             |                     |                 |                 |  |  |  |
|  | SBIT      | 1352                    | 8.4                      | A                       | 8.4                      | A                       |                              |                             |                     |                 |                 |  |  |  |
|  | SBOT      | 378                     | 5.6                      | A                       | 5.5                      | A                       |                              |                             |                     |                 |                 |  |  |  |
|  | SBOR      | 13                      | 2.5                      | A                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
| Roosevelt Blvd & Conwell Ave               | EBL1 (I)  | 133                     | 30.6                     | C                       | 30.5                     | C                       | 12.0                         | B                           | 20                  | 147             |                 |  |  |  |
|  | EBR1 (I)  | 0                       | 0.1                      | A                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | EBR2 (O)  | 0                       | 6.2                      | A                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | NBIU2 (O) | 13                      | 51.5                     | D                       | 11.4                     | B                       |                              |                             |                     |                 |                 |  |  |  |
|  | NBIL      | 59                      | 65.6                     | E                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | NBIT      | 1144                    | 8.2                      | A                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | NBOT      | 998                     | 6.5                      | A                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       | 16.3                     | B                       |                              |                             |                     |                 |                 |  |  |  |
|  | SBIT      | 1358                    | 16.3                     | B                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | SBOT      | 380                     | 6.8                      | A                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |
|  | SBOR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     |                 |                 |  |  |  |

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| Intersection                       | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|------------------------------------|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Red Lion Rd       | EBL1 (I)  | 52                      | 39.5                     | D                       | 35.0                     | D                       | 38.1                         | D                           | 270                 | 103             | 497             |  |  |
|                                    | EBL2 (O)  | 74                      | 39.4                     | D                       |                          |                         |                              |                             | 270                 | 103             | 497             |  |  |
|                                    | EBT       | 513                     | 34.1                     | C                       |                          |                         |                              |                             | 103                 | 103             | 497             |  |  |
|                                    | EBR1 (I)  | 286                     | 35.1                     | D                       |                          |                         |                              |                             | 103                 | 103             | 497             |  |  |
|                                    | EBR2 (O)  | 50                      | 33.6                     | C                       |                          |                         |                              |                             | 103                 | 103             | 497             |  |  |
|                                    | WBL1 (I)  | 63                      | 36.2                     | D                       | 34.5                     | C                       |                              |                             | 83                  | 367             |                 |  |  |
|                                    | WBL2 (O)  | 66                      | 44.5                     | D                       |                          |                         |                              |                             | 83                  | 367             |                 |  |  |
|                                    | WBT       | 452                     | 33.1                     | C                       |                          |                         |                              |                             | 83                  | 367             |                 |  |  |
|                                    | WBR1 (I)  | 2                       | 31.7                     | C                       |                          |                         |                              |                             | 83                  | 367             |                 |  |  |
|                                    | WBR2 (O)  | 50                      | 31.5                     | C                       |                          |                         |                              |                             | 83                  | 367             |                 |  |  |
|                                    | NBIU1 (I) | 2                       | 28.3                     | C                       | 43.5                     | D                       |                              |                             | 96                  | 478             |                 |  |  |
|                                    | NBIU2 (O) | 1                       | 24.0                     | C                       |                          |                         |                              |                             | 96                  | 478             |                 |  |  |
|                                    | NBIL      | 218                     | 46.0                     | D                       |                          |                         |                              |                             | 96                  | 478             |                 |  |  |
|                                    | NBIT      | 1048                    | 43.1                     | D                       | 48.9                     | D                       |                              |                             | 96                  | 478             |                 |  |  |
|                                    | NBOT      | 840                     | 49.1                     | D                       |                          |                         |                              |                             | 137                 | 607             |                 |  |  |
|                                    | NBOR      | 155                     | 48.0                     | D                       |                          |                         |                              |                             | 137                 | 607             |                 |  |  |
|                                    | SBIU1 (I) | 0                       | 0.0                      | A                       | 29.0                     | C                       |                              |                             | 76                  | 460             |                 |  |  |
|                                    | SIU2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 76                  | 460             |                 |  |  |
|                                    | SBIL      | 90                      | 65.5                     | E                       |                          |                         |                              |                             | 76                  | 460             |                 |  |  |
|                                    | SBIT      | 1004                    | 25.7                     | C                       | 32.5                     | C                       |                              |                             | 76                  | 460             |                 |  |  |
|                                    | SBOT      | 349                     | 36.2                     | D                       |                          |                         |                              |                             | 52                  | 238             |                 |  |  |
|                                    | SBOR      | 111                     | 20.7                     | C                       |                          |                         |                              |                             | 52                  | 238             |                 |  |  |
| Roosevelt Blvd & Tomlinson Ave Ped | EBR       | 85                      | 5.9                      | A                       | 5.9                      | A                       | 6.0                          | A                           | 2                   | 68              |                 |  |  |
|                                    | NBIT      | 1112                    | 7.5                      | A                       | 7.5                      | A                       |                              |                             | 14                  | 325             |                 |  |  |
|                                    | NBOT      | 969                     | 8.4                      | A                       | 8.4                      | A                       |                              |                             | 17                  | 370             |                 |  |  |
|                                    | SBIT      | 1092                    | 3.3                      | A                       | 3.3                      | A                       |                              |                             | 3                   | 135             |                 |  |  |
|                                    | SBOT      | 376                     | 3.7                      | A                       | 3.7                      | A                       |                              |                             | 3                   | 106             |                 |  |  |
|                                    | SBOR      | 1                       | 2.2                      | A                       |                          |                         |                              |                             | 5                   | 144             |                 |  |  |
| Roosevelt Blvd & Haldeman Ave      | EBL1 (I)  | 288                     | 55.4                     | E                       | 54.9                     | D                       | 18.4                         | B                           | 115                 | 437             |                 |  |  |
|                                    | EBL2 (O)  | 351                     | 54.4                     | D                       |                          |                         |                              |                             | 115                 | 437             |                 |  |  |
|                                    | EBT       | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 115                 | 437             |                 |  |  |
|                                    | EBR2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 122                 | 446             |                 |  |  |
|                                    | WBL1 (I)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 2                   | 39              |                 |  |  |
|                                    | WBL2 (O)  | 0                       | 0.0                      | A                       | 26.8                     | C                       |                              |                             | 2                   | 39              |                 |  |  |
|                                    | WBR1 (I)  | 8                       | 41.1                     | D                       |                          |                         |                              |                             | 3                   | 51              |                 |  |  |
|                                    | WBR2 (O)  | 7                       | 8.2                      | A                       |                          |                         |                              |                             | 22                  | 406             |                 |  |  |
|                                    | NBIU      | 0                       | 0.4                      | A                       |                          |                         |                              |                             | 22                  | 406             |                 |  |  |
|                                    | NBIT      | 1121                    | 12.6                     | B                       | 12.6                     | B                       |                              |                             | 32                  | 445             |                 |  |  |
|                                    | NBOT      | 947                     | 11.8                     | B                       |                          |                         |                              |                             | 32                  | 445             |                 |  |  |
|                                    | NBOR      | 25                      | 11.1                     | B                       |                          |                         |                              |                             | 24                  | 334             |                 |  |  |
|                                    | SBIU      | 0                       | 0.0                      | A                       | 11.2                     | B                       |                              |                             | 24                  | 334             |                 |  |  |
|                                    | SBIT      | 1116                    | 11.2                     | B                       |                          |                         |                              |                             | 15                  | 140             |                 |  |  |
|                                    | SBOT      | 383                     | 12.1                     | B                       |                          |                         |                              |                             | 34                  | 150             |                 |  |  |
| Roosevelt Blvd & Plaza Dr          | EBL1 (I)  | 0                       | 0.0                      | A                       | 39.7                     | D                       | 26.4                         | C                           | 34                  | 150             |                 |  |  |
|                                    | EBL2 (O)  | 25                      | 39.6                     | D                       |                          |                         |                              |                             | 34                  | 150             |                 |  |  |
|                                    | EBT       | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 34                  | 150             |                 |  |  |
|                                    | EBR1 (I)  | 20                      | 41.7                     | D                       |                          |                         |                              |                             | 34                  | 150             |                 |  |  |
|                                    | EBR2 (O)  | 155                     | 39.5                     | D                       |                          |                         |                              |                             | 36                  | 151             |                 |  |  |
|                                    | WBL1 (I)  | 0                       | 0.0                      | A                       | 17.0                     | B                       |                              |                             | 0                   | 22              |                 |  |  |
|                                    | WBL2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 0                   | 22              |                 |  |  |
|                                    | WBT       | 1                       | 10.9                     | B                       |                          |                         |                              |                             | 0                   | 22              |                 |  |  |
|                                    | WBR1 (I)  | 1                       | 24.4                     | C                       |                          |                         |                              |                             | 0                   | 22              |                 |  |  |
|                                    | WBR2 (O)  | 1                       | 18.2                     | B                       | 16.7                     | B                       |                              |                             | 0                   | 22              |                 |  |  |
|                                    | NBIU1 (I) | 10                      | 58.2                     | E                       |                          |                         |                              |                             | 230                 | 46              | 425             |  |  |
|                                    | NBIU2 (O) | 23                      | 68.8                     | E                       |                          |                         |                              |                             | 230                 | 46              | 425             |  |  |
|                                    | NBIL      | 44                      | 65.6                     | E                       | 15.5                     | B                       |                              |                             | 230                 | 46              | 425             |  |  |
|                                    | NBIT      | 1337                    | 13.9                     | B                       |                          |                         |                              |                             | 46                  | 425             |                 |  |  |
|                                    | NBOT      | 1298                    | 15.5                     | B                       |                          |                         |                              |                             | 52                  | 498             |                 |  |  |
|                                    | NBOR      | 7                       | 12.7                     | B                       | 38.1                     | D                       |                              |                             | 52                  | 498             |                 |  |  |
|                                    | SBIT      | 1064                    | 38.1                     | D                       |                          |                         |                              |                             | 84                  | 312             |                 |  |  |
|                                    | SBOT      | 759                     | 40.9                     | D                       |                          |                         |                              |                             | 130                 | 559             |                 |  |  |
|                                    | SBOR      | 187                     | 35.8                     | D                       | 39.9                     | D                       |                              |                             | 130                 | 558             |                 |  |  |

## 2025 No Build AM

| Intersection                           | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |  |
|--|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|--|
| Roosevelt Blvd & Nabisco Dr            | EBL1 (I)  | 0                       | 0.0                      | A                       | 0.0                      | A                       | 4.0                          | A                           |                     | 0               | 0               |  |  |  |
|  | EBL2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 0               | 0               |  |  |  |
|  | EBR2 (O)  | 0                       | 0.0                      | A                       | 5.9                      | A                       |                              |                             |                     | 0               | 0               |  |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 2               | 125             |  |  |  |
|  | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 2               | 125             |  |  |  |
|  | NBIL      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 2               | 125             |  |  |  |
|  | NBIT      | 1327                    | 5.9                      | A                       |                          |                         |                              |                             |                     | 2               | 125             |  |  |  |
|  | NBOT      | 1311                    | 7.7                      | A                       | 7.7                      | A                       |                              |                             |                     | 11              | 285             |  |  |  |
|  | SBIT      | 1066                    | 0.2                      | A                       | 0.2                      | A                       |                              |                             |                     | 0               | 2               |  |  |  |
|  | SBOT      | 1008                    | 0.4                      | A                       | 0.4                      | A                       |                              |                             |                     | 0               | 7               |  |  |  |
|  | SBOR      | 0                       | 0.0                      | A                       | 28.1                     | C                       |                              |                             |                     | 0               | 7               |  |  |  |
| Roosevelt Blvd & Comly Rd              | WBL1 (I)  | 113                     | 32.9                     | C                       |                          |                         |                              |                             |                     | 50              | 276             |  |  |  |
|  | WBL2 (O)  | 152                     | 39.4                     | D                       |                          |                         |                              |                             |                     | 50              | 276             |  |  |  |
|  | WBR1 (I)  | 202                     | 40.4                     | D                       |                          |                         |                              |                             |                     | 50              | 276             |  |  |  |
|  | WBR2 (O)  | 48                      | 38.6                     | D                       |                          |                         |                              |                             |                     | 50              | 276             |  |  |  |
|  | NBIT      | 1329                    | 13.8                     | B                       | 13.8                     | B                       |                              |                             |                     | 50              | 238             |  |  |  |
|  | NBOT      | 1160                    | 11.8                     | B                       | 12.1                     | B                       |                              |                             |                     | 69              | 231             |  |  |  |
|  | NBOR      | 149                     | 14.3                     | B                       | 72.4                     | E                       |                              |                             |                     | 66              | 227             |  |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 225             | 534             |  |  |  |
|  | SBIU2 (O) | 25                      | 295.5                    | F                       |                          |                         |                              |                             |                     | 225             | 534             |  |  |  |
|  | SBIL      | 229                     | 325.5                    | F                       |                          |                         |                              |                             |                     | 225             | 534             |  |  |  |
|  | SBIT      | 955                     | 6.1                      | A                       |                          |                         |                              |                             |                     | 855             | 534             |  |  |  |
|  | SBOT      | 856                     | 6.4                      | A                       | 6.4                      | A                       |                              |                             |                     | 18              | 132             |  |  |  |
| Roosevelt Blvd & Byberry Rd            | EBL2 (O)  | 73                      | 49.9                     | D                       | 40.0                     | D                       | 21.9                         | C                           |                     | 44              | 204             |  |  |  |
|  | EBR1 (I)  | 70                      | 37.0                     | D                       |                          |                         |                              |                             |                     | 44              | 204             |  |  |  |
|  | EBR2 (O)  | 122                     | 35.7                     | D                       | 24.9                     | C                       |                              |                             |                     | 44              | 204             |  |  |  |
|  | NBIU1 (I) | 46                      | 61.5                     | E                       |                          |                         |                              |                             |                     | 78              | 342             |  |  |  |
|  | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 78              | 342             |  |  |  |
|  | NBIL      | 173                     | 41.7                     | D                       |                          |                         |                              |                             |                     | 78              | 342             |  |  |  |
|  | NBIT      | 1301                    | 21.3                     | C                       |                          |                         |                              |                             |                     | 78              | 342             |  |  |  |
|  | NBOT      | 753                     | 6.7                      | A                       | 7.6                      | A                       |                              |                             |                     | 15              | 329             |  |  |  |
|  | NBOR      | 476                     | 9.0                      | A                       | 17.9                     | B                       |                              |                             |                     | 15              | 328             |  |  |  |
|  | SBIT      | 1145                    | 32.5                     | C                       |                          |                         |                              |                             |                     | 99              | 493             |  |  |  |
|  | SBOT      | 734                     | 21.1                     | C                       |                          |                         |                              |                             |                     | 43              | 249             |  |  |  |
|  | SBOR      | 168                     | 3.8                      | A                       |                          |                         |                              |                             |                     | 3               | 191             |  |  |  |
| Roosevelt Blvd & Hornig Rd - Crown Way | EBL1 (I)  | 43                      | 31.7                     | C                       | 31.3                     | C                       | 31.8                         | C                           |                     | 6               | 75              |  |  |  |
|  | EBL2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 6               | 75              |  |  |  |
|  | EBT       | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 6               | 75              |  |  |  |
|  | EBR1 (I)  | 1                       | 19.1                     | B                       | 30.8                     | C                       |                              |                             |                     | 6               | 75              |  |  |  |
|  | EBR2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 6               | 75              |  |  |  |
|  | WBL1 (I)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 3               | 50              |  |  |  |
|  | WBL2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 3               | 50              |  |  |  |
|  | WBT       | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 3               | 50              |  |  |  |
|  | WBR1 (I)  | 1                       | 12.2                     | B                       | 49.9                     | D                       |                              |                             |                     | 3               | 50              |  |  |  |
|  | WBR2 (O)  | 20                      | 31.2                     | C                       |                          |                         |                              |                             |                     | 3               | 50              |  |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 320             | 86              |  |  |  |
|  | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 320             | 86              |  |  |  |
|  | NBIL      | 144                     | 64.6                     | E                       |                          |                         |                              |                             |                     | 320             | 86              |  |  |  |
|  | NBIT      | 1217                    | 35.8                     | D                       | 18.2                     | B                       |                              |                             |                     | 86              | 349             |  |  |  |
|  | NBOT      | 1610                    | 50.0                     | D                       |                          |                         |                              |                             |                     | 232             | 743             |  |  |  |
|  | NBOR      | 130                     | 49.1                     | D                       |                          |                         |                              |                             |                     | 255             | 773             |  |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 51              | 210             |  |  |  |
|  | SIU2 (O)  | 14                      | 97.2                     | F                       | 15.4                     | B                       |                              |                             |                     | 51              | 210             |  |  |  |
|  | SBIL      | 47                      | 80.8                     | F                       |                          |                         |                              |                             |                     | 51              | 210             |  |  |  |
|  | SBIT      | 1150                    | 14.6                     | B                       |                          |                         |                              |                             |                     | 51              | 210             |  |  |  |
|  | SBOT      | 1258                    | 14.0                     | B                       |                          |                         |                              |                             |                     | 99              | 229             |  |  |  |
|  | SBOR      | 231                     | 23.2                     | C                       |                          |                         |                              |                             |                     | 99              | 229             |  |  |  |

## 2025 No Build AM

| Intersection                     | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|----------------------------------|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Southampton Rd  | EBL1 (I)  | 0                       | 0.0                      | A                       | 41.2                     | D                       | 84.0                         | F                           | 190                 | 95              | 432             |  |  |
|                                  | EBL2 (O)  | 73                      | 53.7                     | D                       |                          |                         |                              |                             | 190                 | 95              | 432             |  |  |
|                                  | EBT       | 432                     | 40.0                     | D                       |                          |                         |                              |                             | 95                  | 432             |                 |  |  |
|                                  | EBR1 (I)  | 64                      | 40.0                     | D                       |                          |                         |                              |                             | 190                 | 95              | 432             |  |  |
|                                  | EBR2 (O)  | 202                     | 39.7                     | D                       |                          |                         |                              |                             | 190                 | 94              | 432             |  |  |
|                                  | WBL1 (I)  | 123                     | 205.9                    | F                       | 118.5                    | F                       |                              |                             | 385                 | 348             | 970             |  |  |
|                                  | WBL2 (O)  | 124                     | 203.3                    | F                       |                          |                         |                              |                             | 385                 | 348             | 970             |  |  |
|                                  | WBT       | 274                     | 89.7                     | F                       |                          |                         |                              |                             | 348                 | 970             |                 |  |  |
|                                  | WBR1 (I)  | 114                     | 64.7                     | E                       |                          |                         |                              |                             | 385                 | 348             | 970             |  |  |
|                                  | WBR2 (O)  | 132                     | 63.5                     | E                       |                          |                         |                              |                             | 385                 | 343             | 972             |  |  |
|                                  | NBIU1 (I) | 16                      | 83.8                     | F                       | 30.8                     | C                       |                              |                             | 720                 | 113             | 321             |  |  |
|                                  | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 720                 | 113             | 321             |  |  |
|                                  | NBIL      | 209                     | 96.0                     | F                       |                          |                         |                              |                             | 720                 | 113             | 321             |  |  |
|                                  | NBIT      | 1241                    | 19.1                     | B                       | 34.0                     | C                       |                              |                             | 113                 | 321             |                 |  |  |
|                                  | NBOT      | 1306                    | 34.3                     | C                       |                          |                         |                              |                             | 123                 | 416             |                 |  |  |
|                                  | NBOR      | 114                     | 30.9                     | C                       |                          |                         |                              |                             | 121                 | 415             |                 |  |  |
|                                  | SBIU1 (I) | 0                       | 294.9                    | F                       | 248.2                    | F                       |                              |                             | 690                 | 1459            | 1867            |  |  |
|                                  | SIU2 (O)  | 0                       | 186.3                    | F                       |                          |                         |                              |                             | 690                 | 1459            | 1867            |  |  |
|                                  | SBIL      | 220                     | 921.6                    | F                       |                          |                         |                              |                             | 690                 | 1459            | 1867            |  |  |
|                                  | SBIT      | 1016                    | 102.3                    | F                       |                          |                         |                              |                             | 1459                | 1867            |                 |  |  |
|                                  | SBOT      | 1174                    | 45.6                     | D                       | 45.6                     | D                       |                              |                             | 160                 | 604             |                 |  |  |
|                                  | SBOR      | 63                      | 44.4                     | D                       |                          |                         |                              |                             | 160                 | 604             |                 |  |  |
| Roosevelt Blvd & Northgate Dr    | EBL       | 98                      | 49.5                     | D                       | 28.7                     | C                       | 19.1                         | B                           | 25                  | 142             |                 |  |  |
|                                  | EBT       | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 21                  | 142             |                 |  |  |
|                                  | EBR       | 100                     | 8.4                      | A                       |                          |                         |                              |                             | 43                  | 171             |                 |  |  |
|                                  | WBL       | 13                      | 41.9                     | D                       | 30.1                     | C                       |                              |                             | 3                   | 59              |                 |  |  |
|                                  | WBT       | 4                       | 44.0                     | D                       |                          |                         |                              |                             | 2                   | 59              |                 |  |  |
|                                  | WBR       | 17                      | 18.1                     | B                       |                          |                         |                              |                             | 5                   | 73              |                 |  |  |
|                                  | NBL       | 235                     | 69.0                     | E                       | 29.0                     | C                       |                              |                             | 81                  | 776             |                 |  |  |
|                                  | NBT       | 2599                    | 25.6                     | C                       |                          |                         |                              |                             | 98                  | 847             |                 |  |  |
|                                  | NBR       | 21                      | 8.4                      | A                       |                          |                         |                              |                             | 95                  | 840             |                 |  |  |
|                                  | SBT       | 2503                    | 7.0                      | A                       | 7.0                      | A                       |                              |                             | 41                  | 319             |                 |  |  |
|                                  | SBR       | 29                      | 8.5                      | A                       |                          |                         |                              |                             | 44                  | 326             |                 |  |  |
| Roosevelt Blvd & Old Lincoln Hwy | EBL       | 128                     | 66.0                     | E                       | 25.6                     | C                       | 18.7                         | B                           | 38                  | 134             |                 |  |  |
|                                  | EBT       | 10                      | 50.8                     | D                       |                          |                         |                              |                             | 35                  | 134             |                 |  |  |
|                                  | EBR       | 463                     | 13.8                     | B                       |                          |                         |                              |                             | 0                   | 4               |                 |  |  |
|                                  | WBL       | 78                      | 81.0                     | F                       | 76.5                     | E                       |                              |                             | 86                  | 328             |                 |  |  |
|                                  | WBT       | 203                     | 74.8                     | E                       |                          |                         |                              |                             | 86                  | 328             |                 |  |  |
|                                  | WBR       | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 107                 | 351             |                 |  |  |
|                                  | NBL       | 391                     | 79.3                     | E                       | 18.5                     | B                       |                              |                             | 92                  | 263             |                 |  |  |
|                                  | NBT       | 2152                    | 7.5                      | A                       |                          |                         |                              |                             | 92                  | 263             |                 |  |  |
|                                  | NBR       | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 44                  | 257             |                 |  |  |
|                                  | SBL       | 13                      | 57.6                     | E                       | 11.0                     | B                       |                              |                             | 46                  | 554             |                 |  |  |
|                                  | SBT       | 1978                    | 13.5                     | B                       |                          |                         |                              |                             | 46                  | 554             |                 |  |  |
|                                  | SBR       | 632                     | 2.3                      | A                       |                          |                         |                              |                             | 133                 | 769             |                 |  |  |

## 2025 Build AM (Screen 6 - BAT Lane in S Curve)

| Intersection                 | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |      |  |  |
|------------------------------|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|------|--|--|
| Broad St & Roosevelt Blvd    | EBT      | 1955                    | 5.6                      | A                       | 5.5                      | A                       | 12.4                         | B                           |                     | 53              | 436             |      |  |  |
|                              | EBR      | 191                     | 5.2                      | A                       |                          |                         |                              |                             |                     | 53              | 436             |      |  |  |
|                              | WBT      | 721                     | 10.1                     | B                       | 11.2                     | B                       |                              |                             |                     | 23              | 174             |      |  |  |
|                              | WBR      | 255                     | 14.3                     | B                       |                          |                         |                              |                             |                     | 23              | 174             |      |  |  |
|                              | NBT      | 334                     | 25.7                     | C                       | 25.7                     | C                       |                              |                             |                     | 29              | 174             |      |  |  |
|                              | NBR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 29              | 174             |      |  |  |
|                              | SBT      | 814                     | 26.8                     | C                       | 26.8                     | C                       |                              |                             |                     | 140             | 310             |      |  |  |
|                              | SBR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 142             | 312             |      |  |  |
| Broad St & Bristol St        | EBT      | 1847                    | 13.6                     | B                       | 13.6                     | B                       | 12.9                         | B                           |                     | 49              | 297             |      |  |  |
|                              | WBT      | 721                     | 2.0                      | A                       | 2.0                      | A                       |                              |                             |                     | 8               | 92              |      |  |  |
|                              | NBL      | 17                      | 23.1                     | C                       | 22.8                     | C                       |                              |                             |                     | 8               | 88              |      |  |  |
|                              | NBR      | 31                      | 22.7                     | C                       |                          |                         |                              |                             |                     | 7               | 86              |      |  |  |
|                              | SBL      | 273                     | 35.3                     | D                       | 35.3                     | D                       |                              |                             |                     | 92              | 158             |      |  |  |
|                              | SBR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 92              | 158             |      |  |  |
| Roosevelt Blvd & Old York Rd | EBL      | 52                      | 39.0                     | D                       | 42.1                     | D                       | 57.4                         | E                           |                     | 136             | 568             |      |  |  |
|                              | EBT      | 501                     | 41.9                     | D                       |                          |                         |                              |                             |                     | 136             | 568             |      |  |  |
|                              | EBR      | 41                      | 47.7                     | D                       |                          |                         |                              |                             |                     | 136             | 568             |      |  |  |
|                              | WBL      | N/A                     | N/A                      | N/A                     | 23.5                     | C                       |                              |                             |                     | N/A             | N/A             |      |  |  |
|                              | WBT      | 442                     | 27.2                     | C                       |                          |                         |                              |                             |                     | 64              | 222             |      |  |  |
|                              | WBR      | 102                     | 7.6                      | A                       |                          |                         |                              |                             |                     | 73              | 236             |      |  |  |
|                              | NBL      | 40                      | 10.8                     | B                       | 9.7                      | A                       |                              |                             |                     | 295             | 20              | 130  |  |  |
|                              | NBT      | 552                     | 9.6                      | A                       |                          |                         |                              |                             |                     | 295             | 20              | 130  |  |  |
|                              | NBR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 295             | 23              | 138  |  |  |
|                              | SBL      | 35                      | 79.4                     | E                       | 103.1                    | F                       |                              |                             |                     | 85              | 483             | 1242 |  |  |
|                              | SBT      | 1132                    | 103.0                    | F                       |                          |                         |                              |                             |                     | 85              | 483             | 1242 |  |  |
|                              | SBR      | 55                      | 120.3                    | F                       |                          |                         |                              |                             |                     | 85              | 493             | 1253 |  |  |
| Roosevelt Blvd & 9th Street  | EBL1 (I) | 0                       | 0.2                      | A                       | 54.6                     | D                       | 16.6                         | B                           |                     | 24              | 116             |      |  |  |
|                              | EBL2 (O) | 1                       | 7.0                      | A                       |                          |                         |                              |                             |                     | 24              | 116             |      |  |  |
|                              | EBT      | 202                     | 54.4                     | D                       |                          |                         |                              |                             |                     | 498             | 100             | 445  |  |  |
|                              | EBr1 (I) | 38                      | 52.3                     | D                       |                          |                         |                              |                             |                     | 498             | 100             | 445  |  |  |
|                              | EBr2 (O) | 102                     | 56.3                     | E                       |                          |                         |                              |                             |                     | 498             | 100             | 445  |  |  |
|                              | WBL1 (I) | 172                     | 1.7                      | A                       | 30.3                     | C                       |                              |                             |                     | 26              | 203             |      |  |  |
|                              | WBL2 (O) | 49                      | 3.5                      | A                       |                          |                         |                              |                             |                     | 22              | 196             |      |  |  |
|                              | WBT      | 363                     | 45.4                     | D                       |                          |                         |                              |                             |                     | 69              | 362             |      |  |  |
|                              | WBR1 (I) | 45                      | 41.9                     | D                       |                          |                         |                              |                             |                     | 69              | 362             |      |  |  |
|                              | WBR2 (O) | 17                      | 43.8                     | D                       |                          |                         |                              |                             |                     | 69              | 362             |      |  |  |
|                              | NBIL     | 103                     | 16.6                     | B                       | 16.4                     | B                       |                              |                             |                     | 400             | 62              | 385  |  |  |
|                              | NBIT     | 1918                    | 16.4                     | B                       |                          |                         |                              |                             |                     | 62              | 385             |      |  |  |
|                              | NBOT     | 1040                    | 16.6                     | B                       | 14.0                     | B                       |                              |                             |                     | 66              | 296             |      |  |  |
|                              | NBOR     | 419                     | 7.4                      | A                       |                          |                         |                              |                             |                     | 1               | 94              |      |  |  |
|                              | SBIL     | 105                     | 24.6                     | C                       | 9.8                      | A                       |                              |                             |                     | 150             | 29              | 296  |  |  |
|                              | SBIT     | 2149                    | 9.0                      | A                       |                          |                         |                              |                             |                     | 29              | 296             |      |  |  |
|                              | SBOT     | 2317                    | 15.6                     | B                       | 15.6                     | B                       |                              |                             |                     | 800             | 124             | 388  |  |  |
|                              | SBOR     | 11                      | 14.2                     | B                       |                          |                         |                              |                             |                     | 800             | 121             | 383  |  |  |
| Roosevelt Blvd & 7th Street  | EBL1 (I) | 64                      | 4.6                      | A                       | 28.7                     | C                       | 15.5                         | B                           |                     | 515             | 5               | 105  |  |  |
|                              | EBL2 (O) | 238                     | 4.3                      | A                       |                          |                         |                              |                             |                     | 515             | 5               | 105  |  |  |
|                              | EBT      | 289                     | 49.4                     | D                       |                          |                         |                              |                             |                     | 94              | 307             |      |  |  |
|                              | EBr1 (I) | 60                      | 51.0                     | D                       |                          |                         |                              |                             |                     | 94              | 307             |      |  |  |
|                              | EBr2 (O) | 5                       | 43.3                     | D                       |                          |                         |                              |                             |                     | 94              | 307             |      |  |  |
|                              | NBIT     | 1959                    | 10.8                     | B                       | 10.8                     | B                       |                              |                             |                     | 950             | 37              | 247  |  |  |
|                              | NBOT     | 1085                    | 10.5                     | B                       |                          |                         |                              |                             |                     | 950             | 33              | 233  |  |  |
|                              | SBIL     | 14                      | 5.7                      | A                       | 6.9                      | A                       |                              |                             |                     | 12              | 114             |      |  |  |
|                              | SBIT     | 2195                    | 6.9                      | A                       |                          |                         |                              |                             |                     | 12              | 114             |      |  |  |
|                              | SBOT     | 2266                    | 27.3                     | C                       | 25.5                     | C                       |                              |                             |                     | 186             | 610             |      |  |  |
|                              | SBOR     | 220                     | 7.0                      | A                       |                          |                         |                              |                             |                     | 9               | 446             |      |  |  |
| Roosevelt Blvd & 5th Street  | EBL      | 32                      | 13.3                     | B                       | 49.7                     | D                       | 23.0                         | C                           |                     | 280             | 26              | 167  |  |  |
|                              | EBT      | 282                     | 52.8                     | D                       |                          |                         |                              |                             |                     | 280             | 144             | 499  |  |  |
|                              | EBr      | 107                     | 52.6                     | D                       |                          |                         |                              |                             |                     | 280             | 144             | 499  |  |  |
|                              | WBL      | 105                     | 12.0                     | B                       | 43.1                     | D                       |                              |                             |                     | 225             | 69              | 295  |  |  |
|                              | WBT      | 357                     | 51.6                     | D                       |                          |                         |                              |                             |                     | 225             | 110             | 400  |  |  |
|                              | WBR      | 36                      | 49.7                     | D                       |                          |                         |                              |                             |                     | 490             | 94              | 423  |  |  |
|                              | NBOL     | 182                     | 35.8                     | D                       | 29.8                     | C                       |                              |                             |                     | 490             | 94              | 423  |  |  |
|                              | NBOT     | 1053                    | 28.8                     | C                       |                          |                         |                              |                             |                     | 490             | 94              | 423  |  |  |
|                              | NBOR     | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 490             | 94              | 423  |  |  |
|                              | SBOL     | 101                     | 17.1                     | B                       | 9.2                      | A                       |                              |                             |                     | 68              | 253             |      |  |  |
|                              | SBOT     | 2051                    | 8.9                      | A                       |                          |                         |                              |                             |                     | 68              | 253             |      |  |  |
|                              | SBOR     | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 68              | 253             |      |  |  |

## 2025 Build AM (Screen 6 - BAT Lane in S Curve)

| Intersection                    | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|---------------------------------|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & 4th-3rd Street | EBL1 (I) | 71                      | 4.3                      | A                       | 52.0                     | D                       | 20.2                         | C                           |                     | 5               | 88              |  |  |
|                                 | EBL2 (O) | 99                      | 4.9                      | A                       |                          |                         |                              |                             |                     | 5               | 88              |  |  |
|                                 | EBT      | 339                     | 71.1                     | E                       |                          |                         |                              |                             |                     | 164             | 289             |  |  |
|                                 | EBR1 (I) | 15                      | 66.4                     | E                       | 35.0                     | C                       |                              |                             |                     | 164             | 289             |  |  |
|                                 | EBR2 (O) | 75                      | 69.7                     | E                       |                          |                         |                              |                             |                     | 164             | 289             |  |  |
|                                 | WBL1 (I) | 20                      | 3.9                      | A                       |                          |                         |                              |                             |                     | 31              | 133             |  |  |
|                                 | WBL2 (O) | 124                     | 4.0                      | A                       | 29.1                     | C                       |                              |                             |                     | 31              | 133             |  |  |
|                                 | WBT      | 251                     | 52.3                     | D                       |                          |                         |                              |                             |                     | 70              | 299             |  |  |
|                                 | WBR1 (I) | 1                       | 30.3                     | C                       |                          |                         |                              |                             |                     | 70              | 299             |  |  |
|                                 | WBR2 (O) | 9                       | 49.4                     | D                       | 11.4                     | B                       |                              |                             |                     | 70              | 299             |  |  |
|                                 | NBIL     | 137                     | 115.1                    | F                       |                          |                         |                              |                             |                     | 275             | 537             |  |  |
|                                 | NBIT     | 1863                    | 22.7                     | C                       |                          |                         |                              |                             |                     | 107             | 537             |  |  |
|                                 | NBOT     | 1028                    | 11.0                     | B                       | 7.2                      | A                       |                              |                             |                     | 31              | 190             |  |  |
|                                 | NBOR     | 90                      | 15.7                     | B                       |                          |                         |                              |                             |                     | 31              | 190             |  |  |
|                                 | SBIL     | 21                      | 11.8                     | B                       |                          |                         |                              |                             |                     | 25              | 159             |  |  |
|                                 | SBIT     | 2173                    | 7.2                      | A                       | 17.9                     | B                       |                              |                             |                     | 25              | 159             |  |  |
|                                 | SBOT     | 1957                    | 17.9                     | B                       |                          |                         |                              |                             |                     | 108             | 432             |  |  |
|                                 | SBOR     | 0                       | 11.6                     | B                       |                          |                         |                              |                             |                     | 107             | 432             |  |  |
| Roosevelt Blvd & 2nd St Ped     | WBR      | 0                       | 0.0                      | A                       | 0.0                      | A                       | 2.9                          | A                           |                     | 0               | 0               |  |  |
|                                 | NBIT     | 1977                    | 1.1                      | A                       | 1.1                      | A                       |                              |                             |                     | 3               | 106             |  |  |
|                                 | NBOT     | 1094                    | 7.8                      | A                       | 7.8                      | A                       |                              |                             |                     | 20              | 352             |  |  |
|                                 | SBIT     | 2193                    | 2.1                      | A                       | 2.1                      | A                       |                              |                             |                     | 3               | 75              |  |  |
|                                 | SBOT     | 2057                    | 2.7                      | A                       | 2.7                      | A                       |                              |                             |                     | 2               | 86              |  |  |
| Roosevelt Blvd & Mascher St     | EBL1 (I) | 117                     | 6.3                      | A                       | 50.2                     | D                       | 20.3                         | C                           |                     | 63              | 209             |  |  |
|                                 | EBL2 (O) | 129                     | 2.6                      | A                       |                          |                         |                              |                             |                     | 1               | 120             |  |  |
|                                 | EBT      | 593                     | 61.9                     | E                       |                          |                         |                              |                             |                     | 168             | 467             |  |  |
|                                 | EBR1 (I) | 107                     | 72.5                     | E                       | 29.4                     | C                       |                              |                             |                     | 168             | 467             |  |  |
|                                 | EBR2 (O) | 91                      | 72.1                     | E                       |                          |                         |                              |                             |                     | 168             | 467             |  |  |
|                                 | NBIT     | 1972                    | 29.4                     | C                       |                          |                         |                              |                             |                     | 580             | 114             |  |  |
|                                 | NBOT     | 960                     | 13.6                     | B                       | 14.2                     | B                       |                              |                             |                     | 580             | 36              |  |  |
|                                 | NBOR     | 134                     | 16.3                     | B                       |                          |                         |                              |                             |                     | 580             | 36              |  |  |
|                                 | SBIL     | 183                     | 47.1                     | D                       |                          |                         |                              |                             |                     | 92              | 267             |  |  |
|                                 | SBIT     | 2084                    | 11.3                     | B                       | 6.1                      | A                       |                              |                             |                     | 92              | 267             |  |  |
|                                 | SBOT     | 1964                    | 6.1                      | A                       |                          |                         |                              |                             |                     | 27              | 178             |  |  |
| Roosevelt Blvd & Front St       | WBL1     | 39                      | 2.0                      | A                       | 16.2                     | B                       | 12.6                         | B                           |                     | 67              | 140             |  |  |
|                                 | WBL2     | 66                      | 3.5                      | A                       |                          |                         |                              |                             |                     | 67              | 140             |  |  |
|                                 | WBT      | 568                     | 17.2                     | B                       |                          |                         |                              |                             |                     | 67              | 140             |  |  |
|                                 | WBR1     | 28                      | 42.2                     | D                       | 28.1                     | C                       |                              |                             |                     | 59              | 299             |  |  |
|                                 | WBR2     | 3                       | 42.3                     | D                       |                          |                         |                              |                             |                     | 59              | 299             |  |  |
|                                 | NBIL     | 254                     | 99.5                     | F                       |                          |                         |                              |                             |                     | 380             | 60              |  |  |
|                                 | NBIT     | 1836                    | 18.3                     | B                       | 7.7                      | A                       |                              |                             |                     | 475             | 61              |  |  |
|                                 | NBOT     | 1089                    | 7.7                      | A                       |                          |                         |                              |                             |                     | 475             | 31              |  |  |
|                                 | SBIT     | 2194                    | 5.3                      | A                       |                          |                         |                              |                             |                     | 315             | 23              |  |  |
|                                 | SBOT     | 1963                    | 5.9                      | A                       | 5.8                      | A                       |                              |                             |                     | 350             | 36              |  |  |
|                                 | SBOR     | 87                      | 3.8                      | A                       |                          |                         |                              |                             |                     | 350             | 36              |  |  |
| Roosevelt Blvd & Rising Sun Ave | EBL1 (I) | 42                      | 6.5                      | A                       | 38.3                     | D                       | 21.4                         | C                           |                     | 55              | 210             |  |  |
|                                 | EBL2 (O) | 8                       | 8.4                      | A                       |                          |                         |                              |                             |                     | 55              | 210             |  |  |
|                                 | EBT      | 200                     | 42.8                     | D                       |                          |                         |                              |                             |                     | 90              | 419             |  |  |
|                                 | EBR1 (I) | 83                      | 42.4                     | D                       | 17.4                     | B                       |                              |                             |                     | 90              | 419             |  |  |
|                                 | EBR2 (O) | 122                     | 41.1                     | D                       |                          |                         |                              |                             |                     | 60              | 2               |  |  |
|                                 | WBL1 (I) | 0                       | 0.0                      | A                       | 9.3                      | A                       |                              |                             |                     | 60              | 2               |  |  |
|                                 | WBL2 (O) | 105                     | 11.0                     | B                       |                          |                         |                              |                             |                     | 60              | 2               |  |  |
|                                 | WBT      | 330                     | 18.7                     | B                       |                          |                         |                              |                             |                     | 60              | 92              |  |  |
|                                 | WBR1 (I) | 29                      | 21.2                     | C                       | 38.2                     | D                       |                              |                             |                     | 60              | 92              |  |  |
|                                 | WBR2 (O) | 32                      | 21.7                     | C                       |                          |                         |                              |                             |                     | 60              | 92              |  |  |
|                                 | NBIL     | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |  |  |
|                                 | NBIT     | 1865                    | 9.3                      | A                       | 9.6                      | A                       |                              |                             |                     | 245             | 35              |  |  |
|                                 | NBOT     | 1089                    | 9.6                      | A                       |                          |                         |                              |                             |                     | 230             | 40              |  |  |
|                                 | SBIL     | 278                     | 71.3                     | E                       |                          |                         |                              |                             |                     | 250             | 230             |  |  |
|                                 | SBIT     | 2116                    | 33.9                     | C                       | 16.0                     | B                       |                              |                             |                     | 450             | 230             |  |  |
|                                 | SBOT     | 1825                    | 14.7                     | B                       |                          |                         |                              |                             |                     | 550             | 88              |  |  |
|                                 | SBOR     | 149                     | 31.5                     | C                       |                          |                         |                              |                             |                     | 550             | 88              |  |  |

## 2025 Build AM (Screen 6 - BAT Lane in S Curve)

| Intersection                                       | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |     |  |  |
|--|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|-----|--|--|
| Roosevelt Blvd & B St Michigan U-Turn              | WBR       | 1                       | 0.4                      | A                       | 0.4                      | A                       | 8.1                          | A                           |                     | 0               | 10              |     |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 275                 | 40              | 290             |     |  |  |
|  | NBIU2 (O) | 178                     | 40.4                     | D                       | 4.9                      | A                       |                              |                             | 275                 | 40              | 290             |     |  |  |
|  | NBIT      | 1756                    | 1.3                      | A                       |                          |                         |                              |                             | 620                 | 0               | 47              |     |  |  |
|  | NBOT      | 1129                    | 2.5                      | A                       | 2.5                      | A                       |                              |                             | 620                 | 3               | 85              |     |  |  |
|  | NBOR      | 0                       | 0.1                      | A                       |                          |                         |                              |                             | 620                 | 3               | 85              |     |  |  |
|  | SBIT      | 2415                    | 13.2                     | B                       | 13.2                     | B                       |                              |                             | 450                 | 98              | 432             |     |  |  |
| Roosevelt Blvd & C Street                          | SBOT      | 1805                    | 8.3                      | A                       | 8.3                      | A                       |                              |                             | 450                 | 28              | 521             |     |  |  |
|  | EBL1 (I)  | 61                      | 11.2                     | B                       | 52.2                     | D                       | 34.1                         | C                           |                     | 41              | 199             |     |  |  |
|  | EBL2 (O)  | 59                      | 13.1                     | B                       |                          |                         |                              |                             |                     | 41              | 199             |     |  |  |
|  | EBT       | 335                     | 62.8                     | E                       |                          |                         |                              |                             |                     | 112             | 528             |     |  |  |
|  | EBR1 (I)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 112             | 528             |     |  |  |
|  | EBR2 (O)  | 123                     | 62.6                     | E                       |                          |                         |                              |                             |                     | 112             | 528             |     |  |  |
|  | WBL1 (I)  | 8                       | 8.3                      | A                       | 47.2                     | D                       |                              |                             |                     | 3               | 126             |     |  |  |
|  | WBL2 (O)  | 86                      | 10.0                     | B                       |                          |                         |                              |                             |                     | 3               | 126             |     |  |  |
|  | WBT       | 350                     | 55.7                     | E                       |                          |                         |                              |                             |                     | 117             | 448             |     |  |  |
|  | WBR1 (I)  | 27                      | 64.4                     | E                       |                          |                         |                              |                             |                     | 117             | 448             |     |  |  |
|  | WBR2 (O)  | 3                       | 71.5                     | E                       |                          |                         |                              |                             |                     | 117             | 448             |     |  |  |
|  | NBIL      | 6                       | 46.4                     | D                       | 43.2                     | D                       |                              |                             | 640                 | 157             | 569             |     |  |  |
|  | NBIT      | 1749                    | 43.1                     | D                       | 640                      | 157                     |                              |                             | 569                 |                 |                 |     |  |  |
|  | NBOT      | 1094                    | 41.5                     | D                       | 40.6                     | D                       |                              |                             | 640                 | 133             | 497             |     |  |  |
|  | NBOR      | 30                      | 8.2                      | A                       | 640                      | 133                     |                              |                             | 497                 |                 |                 |     |  |  |
|  | SBIL      | 183                     | 37.9                     | D                       | 22.1                     | C                       |                              |                             | 255                 | 111             | 557             |     |  |  |
|  | SBIT      | 2257                    | 20.8                     | C                       | 775                      | 111                     |                              |                             | 557                 |                 |                 |     |  |  |
|  | SBOT      | 1778                    | 28.0                     | C                       | 28.4                     | C                       |                              |                             | 785                 | 182             | 477             |     |  |  |
|  | SBOR      | 109                     | 34.7                     | C                       | 785                      | 182                     |                              |                             | 477                 |                 |                 |     |  |  |
| Roosevelt Blvd & Rorer St - D St                   | WBR       | 46                      | 1.4                      | A                       | 1.4                      | A                       | 6.6                          | A                           |                     | 0               | 34              |     |  |  |
|  | NBIT      | 1836                    | 3.3                      | A                       | 3.3                      | A                       |                              |                             | 680                 | 5               | 65              |     |  |  |
|  | NBOT      | 1161                    | 3.7                      | A                       |                          |                         |                              |                             | 680                 | 7               | 122             |     |  |  |
|  | NBOR      | 1                       | 10.9                     | B                       | 3.7                      | A                       |                              |                             | 680                 | 7               | 122             |     |  |  |
|  | SBIT      | 2458                    | 6.2                      | A                       | 6.2                      | A                       |                              |                             | 1150                | 14              | 247             |     |  |  |
|  | SBOT      | 1700                    | 13.0                     | B                       | 13.0                     | B                       |                              |                             | 1160                | 78              | 235             |     |  |  |
| Roosevelt Blvd & F Street                          | EBL1 (I)  | 65                      | 34.2                     | C                       | 59.7                     | E                       | 28.3                         | C                           |                     | 74              | 204             |     |  |  |
|  | EBL2 (O)  | 13                      | 9.2                      | A                       |                          |                         |                              |                             |                     | 74              | 204             |     |  |  |
|  | EBL3      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 74              | 204             |     |  |  |
|  | EBT       | 341                     | 65.8                     | E                       |                          |                         |                              |                             |                     | 123             | 615             |     |  |  |
|  | EBR1 (I)  | 1                       | 64.2                     | E                       |                          |                         |                              |                             |                     | 123             | 615             |     |  |  |
|  | EBR2 (O)  | 72                      | 63.0                     | E                       |                          |                         |                              |                             |                     | 123             | 615             |     |  |  |
|  | WBL1 (I)  | 1                       | 2.2                      | A                       | 87.3                     | F                       |                              |                             |                     | 53              | 182             |     |  |  |
|  | WBL2 (O)  | 106                     | 6.0                      | A                       |                          |                         |                              |                             |                     | 53              | 182             |     |  |  |
|  | WBT       | 375                     | 110.4                    | F                       |                          |                         |                              |                             |                     | 240             | 437             |     |  |  |
|  | WBR1 (I)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 240             | 437             |     |  |  |
|  | WBR2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 240             | 437             |     |  |  |
|  | NBIL      | 136                     | 41.8                     | D                       | 39.0                     | D                       |                              |                             | 170                 | 135             | 594             |     |  |  |
|  | NBIT      | 1760                    | 38.7                     | D                       | 1275                     | 135                     |                              |                             | 594                 |                 |                 |     |  |  |
|  | NBOT      | 1100                    | 0.6                      | A                       | 1.0                      | A                       |                              |                             | 1275                | 96              | 318             |     |  |  |
|  | NBOBR     | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 92              | 311             |     |  |  |
|  | NBOR      | 29                      | 17.4                     | B                       |                          |                         |                              |                             |                     | 1275            | 93              | 312 |  |  |
|  | SBIL      | 197                     | 55.2                     | E                       | 21.9                     | C                       |                              |                             | 1050                | 125             | 618             |     |  |  |
|  | SBIT      | 2470                    | 19.2                     | B                       | 1050                     | 125                     |                              |                             | 618                 |                 |                 |     |  |  |
|  | SBOT      | 1715                    | 19.4                     | B                       | 19.3                     | B                       |                              |                             | 1000                | 95              | 466             |     |  |  |
|  | SBOR      | 50                      | 13.4                     | B                       | 1000                     | 95                      |                              |                             | 466                 |                 |                 |     |  |  |
| Roosevelt Blvd & Whitaker Ave (South) - Garland St | EBC       | 0                       | 0.0                      | A                       | 0.0                      | A                       | 13.1                         | B                           |                     | 0               | 0               |     |  |  |
|  | WBR1 (I)  | 203                     | 54.0                     | D                       | 55.5                     | E                       |                              |                             |                     | 120             | 440             |     |  |  |
|  | WBR2 (O)  | 197                     | 57.1                     | E                       |                          |                         |                              |                             |                     | 120             | 440             |     |  |  |
|  | NBIT      | 1813                    | 15.3                     | B                       | 14.9                     | B                       |                              |                             |                     | 1080            | 43              | 321 |  |  |
|  | NBOT      | 1115                    | 14.2                     | B                       |                          |                         |                              |                             |                     | 1080            | 34              | 264 |  |  |
|  | NBOR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 1080            | 34              | 264 |  |  |
|  | SBU1 (I)  | 0                       | 0.0                      | A                       | 43.0                     | D                       |                              |                             |                     | 95              | 373             |     |  |  |
|  | SBU2 (O)  | 6                       | 39.8                     | D                       |                          |                         |                              |                             |                     | 95              | 373             |     |  |  |
|  | SBL       | 715                     | 43.0                     | D                       |                          |                         |                              |                             |                     | 310             | 95              | 373 |  |  |
|  | SBIT      | 2639                    | 3.0                      | A                       | 3.0                      | A                       |                              |                             |                     | 450             | 21              | 303 |  |  |
|  | SBOT      | 1685                    | 3.0                      | A                       | 3.0                      | A                       |                              |                             |                     | 470             | 5               | 168 |  |  |
|  | SBOR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 470             | 5               | 168 |  |  |

## 2025 Build AM (Screen 6 - BAT Lane in S Curve)

| Intersection                                      | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|---|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Whitaker Ave (North) - Adams Ave | EBL1 (I)  | 140                     | 0.9                      | A                       | 11.0                     | B                       | 18.0                         | B                           |                     | 0               | 77              |  |  |
|   | EBL2 (O)  | 395                     | 1.1                      | A                       |                          |                         |                              |                             |                     | 0               | 77              |  |  |
|   | EBR1 (I)  | 120                     | 29.0                     | C                       |                          |                         |                              |                             |                     | 58              | 233             |  |  |
|   | EBR2 (O)  | 179                     | 28.5                     | C                       |                          |                         |                              |                             |                     | 58              | 233             |  |  |
|   | NBIU1 (I) | 0                       | 0.0                      | A                       | 33.1                     | C                       |                              |                             |                     | 78              | 357             |  |  |
|   | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 78              | 357             |  |  |
|   | NBIL      | 336                     | 13.7                     | B                       |                          |                         |                              |                             |                     | 245             | 357             |  |  |
|   | NBIT      | 1675                    | 37.0                     | D                       | 36.5                     | D                       |                              |                             |                     | 265             | 208             |  |  |
|   | NBOT      | 1309                    | 36.5                     | D                       |                          |                         |                              |                             |                     | 290             | 181             |  |  |
|   | SBIT      | 3238                    | 9.2                      | A                       |                          |                         |                              |                             | 780                 | 44              |                 |  |  |
|   | SBOT      | 1444                    | 6.3                      | A                       | 6.9                      | A                       |                              |                             |                     | 800             | 21              |  |  |
|   | SBOR      | 344                     | 9.8                      | A                       |                          |                         |                              |                             |                     | 800             | 21              |  |  |
| Roosevelt BLvd & Tower Blvd                       | EBR       | 45                      | 9.9                      | A                       | 9.9                      | A                       | 3.9                          | A                           |                     | 1               | 54              |  |  |
|   | NBIU1 (I) | 0                       | 0.0                      | A                       | 6.4                      | A                       |                              |                             |                     | 13              | 125             |  |  |
|   | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 13              | 125             |  |  |
|   | NBIL      | 167                     | 28.9                     | C                       |                          |                         |                              |                             |                     | 320             | 16              |  |  |
|   | NBIT      | 1647                    | 4.1                      | A                       | 6.5                      | A                       |                              |                             |                     | 950             | 7               |  |  |
|   | NBOT      | 1652                    | 6.5                      | A                       |                          |                         |                              |                             |                     | 950             | 15              |  |  |
|   | SBIU1 (I) | 11                      | 36.2                     | D                       |                          |                         |                              |                             |                     | 200             | 28              |  |  |
|   | SBIU1 (O) | 147                     | 33.6                     | C                       | 2.6                      | A                       |                              |                             |                     | 200             | 28              |  |  |
|   | SBIT      | 3241                    | 1.1                      | A                       |                          |                         |                              |                             |                     | 580             | 1               |  |  |
|   | SBOT      | 1743                    | 1.3                      | A                       | 1.3                      | A                       |                              |                             |                     | 580             | 1               |  |  |
|   | SBOR      | 43                      | 1.0                      | A                       |                          |                         |                              |                             |                     | 580             | 0               |  |  |
| Roosevelt Blvd & Langdon St                       | EBL1 (I)  | 115                     | 0.9                      | A                       | 42.9                     | D                       | 15.1                         | B                           |                     | 0               | 74              |  |  |
|   | EBL2 (O)  | 230                     | 2.2                      | A                       |                          |                         |                              |                             |                     | 1               | 122             |  |  |
|   | EBT       | 344                     | 74.5                     | E                       |                          |                         |                              |                             |                     | 200             | 156             |  |  |
|   | EBR1 (I)  | 69                      | 77.0                     | E                       | 39.4                     | D                       |                              |                             |                     | 156             | 329             |  |  |
|   | EBR2 (O)  | 28                      | 74.9                     | E                       |                          |                         |                              |                             |                     | 156             | 329             |  |  |
|   | WBL1 (I)  | 0                       | 0.0                      | A                       | 17.3                     | B                       |                              |                             |                     | 0               | 0               |  |  |
|   | WBL2 (O)  | 6                       | 9.7                      | A                       |                          |                         |                              |                             |                     | 0               | 28              |  |  |
|   | WBT       | 9                       | 44.4                     | D                       |                          |                         |                              |                             |                     | 200             | 17              |  |  |
|   | WBR1 (I)  | 63                      | 41.6                     | D                       | 20.1                     | C                       |                              |                             |                     | 17              | 134             |  |  |
|   | WBR2 (O)  | 13                      | 37.9                     | D                       |                          |                         |                              |                             |                     | 17              | 134             |  |  |
|   | NBLU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 4               | 44              |  |  |
|   | NBLU2 (O) | 7                       | 90.7                     | F                       | 8.7                      | A                       |                              |                             |                     | 4               | 44              |  |  |
|   | NBL       | 5                       | 32.6                     | C                       |                          |                         |                              |                             |                     | 190             | 4               |  |  |
|   | NBIT      | 1694                    | 17.0                     | B                       |                          |                         |                              |                             |                     | 580             | 54              |  |  |
|   | NBOT      | 1712                    | 19.7                     | B                       | 7.1                      | A                       |                              |                             |                     | 600             | 131             |  |  |
|   | NBOR      | 81                      | 29.4                     | C                       |                          |                         |                              |                             |                     | 600             | 131             |  |  |
|   | SBLU1 (I) | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |  |  |
|   | SBLU2 (O) | N/A                     | N/A                      | N/A                     | 26.5                     | C                       |                              |                             |                     | N/A             | N/A             |  |  |
|   | SBL       | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |  |  |
|   | SBIT      | 3329                    | 8.7                      | A                       |                          |                         |                              |                             |                     | 400             | 59              |  |  |
|   | SBOT      | 1750                    | 5.9                      | A                       | 45.7                     | D                       |                              |                             |                     | 415             | 31              |  |  |
|   | SBOR      | 265                     | 15.5                     | B                       |                          |                         |                              |                             |                     | 415             | 31              |  |  |
| Roosevelt Blvd & Summerdale Ave - Adams Ave       | EBL1 (I)  | 6                       | 3.2                      | A                       | 46.8                     | D                       | 29.1                         | C                           |                     | 1               | 111             |  |  |
|   | EBL2 (O)  | 1                       | 2.0                      | A                       |                          |                         |                              |                             |                     | 1               | 111             |  |  |
|   | EBT       | 317                     | 45.5                     | D                       |                          |                         |                              |                             |                     | 1700            | 93              |  |  |
|   | EBR1 (I)  | 331                     | 47.0                     | D                       | 36.2                     | D                       |                              |                             |                     | 300             | 93              |  |  |
|   | EBR2 (O)  | 184                     | 50.0                     | D                       |                          |                         |                              |                             |                     | 300             | 93              |  |  |
|   | WBL1 (I)  | 167                     | 0.7                      | A                       | 16.6                     | B                       |                              |                             |                     | 730             | 1               |  |  |
|   | WBL2 (O)  | 404                     | 15.3                     | B                       |                          |                         |                              |                             |                     | 730             | 1               |  |  |
|   | WBT       | 139                     | 93.4                     | F                       |                          |                         |                              |                             |                     | 120             | 49              |  |  |
|   | WBR1 (I)  | 56                      | 144.4                    | F                       | 16.8                     | B                       |                              |                             |                     | 730             | 293             |  |  |
|   | WBR2 (O)  | 8                       | 84.0                     | F                       |                          |                         |                              |                             |                     | 730             | 293             |  |  |
|   | NBLU1 (I) | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |  |  |
|   | NBLU2 (O) | N/A                     | N/A                      | N/A                     | 45.7                     | D                       |                              |                             |                     | N/A             | N/A             |  |  |
|   | NBL       | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | 450             | 56              |  |  |
|   | NBIT      | 1872                    | 16.6                     | B                       |                          |                         |                              |                             |                     | 450             | 80              |  |  |
|   | NBOT      | 1235                    | 16.4                     | B                       | 26.5                     | C                       |                              |                             |                     | 450             | 1               |  |  |
|   | NBOR      | 715                     | 17.4                     | B                       |                          |                         |                              |                             |                     | N/A             | N/A             |  |  |
|   | SBLU1 (I) | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | 950             | 151             |  |  |
|   | SBLU2 (O) | N/A                     | N/A                      | N/A                     | 45.7                     | D                       |                              |                             |                     | 950             | 333             |  |  |
|   | SBL       | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | 950             | 72              |  |  |
|   | SBIT      | 2830                    | 26.5                     | C                       |                          |                         |                              |                             |                     | 950             | 985             |  |  |
|   | SBOT      | 1740                    | 52.5                     | D                       |                          |                         |                              |                             |                     | 950             | 643             |  |  |
|   | SBOR      | 308                     | 7.6                      | A                       |                          |                         |                              |                             |                     | 950             | 256             |  |  |

## 2025 Build AM (Screen 6 - BAT Lane in S Curve)

| Intersection                                       | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |     |  |  |
|--|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|-----|--|--|
| Roosevelt Blvd & Allengrove St Michigan U-turn     | WBR       | 0                       | 0.0                      | A                       | 0.0                      | A                       | 9.5                          | A                           |                     | 0               | 0               |     |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 300                 | 26              | 189             |     |  |  |
|  | NBIU2 (O) | 317                     | 29.5                     | C                       | 5.6                      | A                       |                              |                             | 300                 | 26              | 189             |     |  |  |
|  | NBIT      | 1616                    | 0.9                      | A                       |                          |                         |                              |                             | 1090                | 2               | 46              |     |  |  |
|  | NBOT      | 1189                    | 7.0                      | A                       | 7.0                      | A                       |                              |                             | 1090                | 7               | 132             |     |  |  |
|  | SBIT      | 2846                    | 9.2                      | A                       |                          |                         |                              |                             | 1040                | 30              | 330             |     |  |  |
|  | SBOT      | 1420                    | 17.3                     | B                       | 11.9                     | B                       |                              |                             | 1040                | 87              | 210             |     |  |  |
| Roosevelt Blvd & Pratt Street                      | EBL1 (I)  | 4                       | 41.7                     | D                       | 45.7                     | D                       | 14.3                         | B                           |                     | 1               | 36              |     |  |  |
|  | EBL2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 1               | 36              |     |  |  |
|  | EBT       | 109                     | 45.7                     | D                       |                          |                         |                              |                             |                     | 62              | 310             |     |  |  |
|  | EBR1 (I)  | 64                      | 49.5                     | D                       |                          |                         |                              |                             |                     | 62              | 310             |     |  |  |
|  | EBR2 (O)  | 86                      | 43.2                     | D                       |                          |                         |                              |                             |                     | 62              | 310             |     |  |  |
|  | WBL1 (I)  | 65                      | 3.2                      | A                       | 29.9                     | C                       |                              |                             |                     | 6               | 130             |     |  |  |
|  | WBL2 (O)  | 87                      | 5.9                      | A                       |                          |                         |                              |                             |                     | 6               | 130             |     |  |  |
|  | WBT       | 252                     | 44.9                     | D                       |                          |                         |                              |                             |                     | 69              | 332             |     |  |  |
|  | WBR1 (I)  | 3                       | 46.2                     | D                       |                          |                         |                              |                             |                     | 69              | 332             |     |  |  |
|  | WBR2 (O)  | 0                       | 25.1                     | C                       |                          |                         |                              |                             |                     | 69              | 332             |     |  |  |
|  | NBIL      | 20                      | 16.1                     | B                       | 14.4                     | B                       |                              |                             |                     | 140             | 51              | 296 |  |  |
|  | NBIT      | 1614                    | 14.3                     | B                       |                          |                         |                              |                             |                     | 1140            | 51              | 296 |  |  |
|  | NBOT      | 1061                    | 20.1                     | C                       |                          |                         |                              |                             |                     | 1140            | 63              | 503 |  |  |
|  | NBOR      | 304                     | 23.4                     | C                       |                          |                         |                              |                             |                     | 1140            | 63              | 503 |  |  |
|  | SBIL      | 3                       | 1.4                      | A                       | 20.8                     | C                       |                              |                             |                     | 500             | 2               | 102 |  |  |
|  | SBIT      | 2730                    | 1.7                      | A                       |                          |                         |                              |                             |                     | 500             | 2               | 102 |  |  |
|  | SBOT      | 1191                    | 23.0                     | C                       |                          |                         |                              |                             |                     | 500             | 77              | 439 |  |  |
|  | SBOR      | 5                       | 39.2                     | D                       |                          |                         |                              |                             |                     | 500             | 77              | 439 |  |  |
| Roosevelt Blvd & Bridge Street                     | EBL1 (I)  | 0                       | 12.1                     | B                       | 62.0                     | E                       | 15.5                         | B                           |                     | 32              | 113             |     |  |  |
|  | EBL2 (O)  | 1                       | 24.9                     | C                       |                          |                         |                              |                             |                     | 32              | 113             |     |  |  |
|  | EBT       | 144                     | 63.5                     | E                       |                          |                         |                              |                             |                     | 111             | 426             |     |  |  |
|  | EBR1 (I)  | 11                      | 59.8                     | E                       |                          |                         |                              |                             |                     | 111             | 426             |     |  |  |
|  | EBR2 (O)  | 165                     | 61.1                     | E                       |                          |                         |                              |                             |                     | 111             | 426             |     |  |  |
|  | WBL1 (I)  | 5                       | 3.9                      | A                       | 39.5                     | D                       |                              |                             |                     | 8               | 129             |     |  |  |
|  | WBL2 (O)  | 39                      | 26.1                     | C                       |                          |                         |                              |                             |                     | 8               | 129             |     |  |  |
|  | WBT       | 167                     | 43.6                     | D                       |                          |                         |                              |                             |                     | 47              | 247             |     |  |  |
|  | WBR1 (I)  | 3                       | 45.9                     | D                       |                          |                         |                              |                             |                     | 47              | 247             |     |  |  |
|  | WBR2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 47              | 247             |     |  |  |
|  | NBIL      | 28                      | 4.2                      | A                       | 2.9                      | A                       |                              |                             |                     | 510             | 3               | 99  |  |  |
|  | NBIT      | 1585                    | 2.9                      | A                       |                          |                         |                              |                             |                     | 510             | 3               | 99  |  |  |
|  | NBOT      | 926                     | 5.9                      | A                       |                          |                         |                              |                             |                     |                 | 20              | 129 |  |  |
|  | NBOR      | 135                     | 11.5                     | B                       |                          |                         |                              |                             |                     |                 | 20              | 129 |  |  |
|  | SBIL      | 134                     | 114.6                    | F                       |                          |                         |                              |                             |                     |                 | 91              | 600 |  |  |
|  | SBIT      | 2722                    | 15.8                     | B                       | 11.4                     | B                       |                              |                             |                     |                 | 91              | 600 |  |  |
|  | SBOT      | 1000                    | 11.7                     | B                       |                          |                         |                              |                             |                     |                 | 26              | 262 |  |  |
|  | SBOR      | 64                      | 6.8                      | A                       |                          |                         |                              |                             |                     |                 | 26              | 262 |  |  |
| Roosevelt Blvd & Sanger St Ped                     | NBOT      | 461                     | 5.9                      | A                       | 5.9                      | A                       | 2.6                          | A                           |                     | 26              | 189             |     |  |  |
|  | SBOT      | 1068                    | 1.2                      | A                       |                          |                         |                              |                             |                     | 2               | 82              |     |  |  |
|  | SBOR      | 0                       | 0.0                      | A                       | 1.2                      | A                       |                              |                             |                     | 2               | 82              |     |  |  |
| Roosevelt Blvd NB & Oxford Circle & Oxford Ave     | EBL       | 130                     | 1.8                      | A                       | 10.2                     | B                       | 31.7                         | C                           |                     | 31              | 230             |     |  |  |
|  | EBT       | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 31              | 230             |     |  |  |
|  | EBR       | 533                     | 12.3                     | B                       |                          |                         |                              |                             |                     | 31              | 230             |     |  |  |
|  | WBR       | 235                     | 25.6                     | C                       | 25.6                     | C                       |                              |                             |                     | 64              | 505             |     |  |  |
|  | NBOT      | 961                     | 15.8                     | B                       |                          |                         |                              |                             |                     | 56              | 164             |     |  |  |
|  | NBOR      | 118                     | 51.0                     | D                       |                          |                         |                              |                             |                     | 56              | 164             |     |  |  |
|  | NBOHR     | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 56              | 164             |     |  |  |
| Roosevelt Blvd NB & Oxford Circle & Cheltenham Ave | WBR       | 142                     | 169.5                    | F                       | 169.5                    | F                       | 31.7                         | C                           |                     | 107             | 236             |     |  |  |
|  | NBOL      | 217                     | 7.2                      | A                       |                          |                         |                              |                             |                     | 18              | 141             |     |  |  |
|  | NBOT      | 873                     | 5.8                      | A                       | 6.1                      | A                       |                              |                             |                     | 17              | 135             |     |  |  |
|  | NBT       | 232                     | 49.0                     | D                       | 35.2                     | D                       |                              |                             |                     | 40              | 215             |     |  |  |
|  | NBR       | 224                     | 20.9                     | C                       |                          |                         |                              |                             |                     | 148             | 348             |     |  |  |
| Roosevelt Blvd SB & Oxford Circle                  | SBOL      | 87                      | 4.4                      | A                       | 4.3                      | A                       | 31.7                         | C                           |                     | 8               | 92              |     |  |  |
|  | SBOT      | 755                     | 4.3                      | A                       |                          |                         |                              |                             |                     | 9               | 86              |     |  |  |
|  | SBT       | 674                     | 76.8                     | E                       | 65.5                     | E                       |                              |                             |                     | 341             | 695             |     |  |  |
|  | SBR       | 313                     | 41.3                     | D                       |                          |                         |                              |                             |                     | 382             | 747             |     |  |  |
| Roosevelt Blvd SB & Oxford Circle & Castor Ave     | EBR       | 564                     | 109.1                    | F                       | 109.1                    | F                       | 31.7                         | C                           |                     | 374             | 674             |     |  |  |
|  | WBL       | 109                     | 1.3                      | A                       |                          |                         |                              |                             |                     | 49              | 314             |     |  |  |
|  | WBT       | 173                     | 35.1                     | D                       | 23.9                     | C                       |                              |                             |                     | 49              | 314             |     |  |  |
|  | WBR       | 307                     | 25.6                     | C                       |                          |                         |                              |                             |                     | 25              | 165             |     |  |  |
|  | SBOT      | 730                     | 15.3                     | B                       |                          |                         |                              |                             |                     | 425             | 49              |     |  |  |
|  | SBOR      | 155                     | 18.6                     | B                       | 15.9                     | B                       |                              |                             |                     | 425             | 51              |     |  |  |
|  | SBOHR     | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 425             | 49              |     |  |  |
|  |           |                         |                          |                         |                          |                         |                              |                             |                     |                 | 375             |     |  |  |

## 2025 Build AM (Screen 6 - BAT Lane in S Curve)

| Intersection                      | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |     |  |  |
|-----------------------------------|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|-----|--|--|
| Roosevelt Blvd & Large Street     | EBL1 (I) | 1                       | 2.1                      | A                       | 61.5                     | E                       | 18.4                         | B                           |                     | 16              | 176             |     |  |  |
|                                   | EBL2 (O) | 1                       | 1.4                      | A                       |                          |                         |                              |                             |                     | 15              | 173             |     |  |  |
|                                   | EBT      | 229                     | 60.7                     | E                       |                          |                         |                              |                             |                     | 172             | 540             |     |  |  |
|                                   | EBR1 (I) | 159                     | 65.7                     | E                       | 22.6                     | C                       |                              |                             |                     | 172             | 540             |     |  |  |
|                                   | EBR2 (O) | 105                     | 57.6                     | E                       |                          |                         |                              |                             |                     | 172             | 540             |     |  |  |
|                                   | WBL1 (I) | 42                      | 3.6                      | A                       |                          |                         |                              |                             |                     | 12              | 85              |     |  |  |
|                                   | WBL2 (O) | 4                       | 9.5                      | A                       | 7.0                      | A                       |                              |                             |                     | 12              | 85              |     |  |  |
|                                   | WBT      | 186                     | 29.9                     | C                       |                          |                         |                              |                             |                     | 63              | 240             |     |  |  |
|                                   | WBR1 (I) | 0                       | 0.1                      | A                       |                          |                         |                              |                             |                     | 63              | 240             |     |  |  |
|                                   | WBR2 (O) | 68                      | 15.6                     | B                       | 21.2                     | C                       |                              |                             |                     | 63              | 240             |     |  |  |
|                                   | NBIL     | 92                      | 8.1                      | A                       |                          |                         |                              |                             |                     | 2               | 71              |     |  |  |
|                                   | NBIT     | 1491                    | 6.9                      | A                       |                          |                         |                              |                             |                     | 2               | 71              |     |  |  |
|                                   | NBOT     | 1087                    | 21.2                     | C                       | 18.0                     | B                       |                              |                             |                     | 60              | 339             |     |  |  |
|                                   | SBIL     | 124                     | 13.4                     | B                       |                          |                         |                              |                             |                     | 75              | 440             |     |  |  |
|                                   | SBIT     | 2679                    | 18.2                     | B                       |                          |                         |                              |                             |                     | 75              | 440             |     |  |  |
|                                   | SBOT     | 760                     | 10.7                     | B                       | 10.3                     | B                       |                              |                             |                     | 28              | 212             |     |  |  |
|                                   | SBOR     | 51                      | 4.6                      | A                       |                          |                         |                              |                             |                     | 16              | 205             |     |  |  |
| Roosevelt Blvd & Devereaux Street | EBL1 (I) | 196                     | 5.0                      | A                       | 33.0                     | C                       | 22.5                         | C                           |                     | 1               | 59              |     |  |  |
|                                   | EBL2 (O) | 33                      | 4.1                      | A                       |                          |                         |                              |                             |                     | 1               | 59              |     |  |  |
|                                   | EBT      | 505                     | 44.6                     | D                       |                          |                         |                              |                             |                     | 81              | 458             |     |  |  |
|                                   | EBR1 (I) | 72                      | 41.9                     | D                       | 42.1                     | D                       |                              |                             |                     | 79              | 458             |     |  |  |
|                                   | EBR2 (O) | 1                       | 18.9                     | B                       |                          |                         |                              |                             |                     | 79              | 458             |     |  |  |
|                                   | WBL1 (I) | 151                     | 12.7                     | B                       | 35.4                     | D                       |                              |                             |                     | 570             | 5               | 116 |  |  |
|                                   | WBL2 (O) | 33                      | 12.2                     | B                       |                          |                         |                              |                             |                     | 570             | 5               | 116 |  |  |
|                                   | WBT      | 457                     | 54.0                     | D                       |                          |                         |                              |                             |                     | 570             | 93              | 326 |  |  |
|                                   | WBR1 (J) | 0                       | 0.0                      | A                       | 28.4                     | C                       |                              |                             |                     | 570             | 93              | 326 |  |  |
|                                   | NBIL     | 1                       | 10.2                     | B                       |                          |                         |                              |                             |                     | 97              | 464             |     |  |  |
|                                   | NBIT     | 1476                    | 35.4                     | D                       |                          |                         |                              |                             |                     | 98              | 464             |     |  |  |
|                                   | NBOT     | 1150                    | 28.3                     | C                       | 9.2                      | A                       |                              |                             |                     | 75              | 361             |     |  |  |
|                                   | NBOR     | 19                      | 32.0                     | C                       |                          |                         |                              |                             |                     | 75              | 361             |     |  |  |
|                                   | SBIL     | 3                       | 18.9                     | B                       |                          |                         |                              |                             |                     | 28              | 196             |     |  |  |
|                                   | SBIT     | 2590                    | 9.1                      | A                       | 8.7                      | A                       |                              |                             |                     | 28              | 196             |     |  |  |
|                                   | SBOT     | 806                     | 8.8                      | A                       |                          |                         |                              |                             |                     | 20              | 165             |     |  |  |
|                                   | SBOR     | 111                     | 8.1                      | A                       |                          |                         |                              |                             |                     | 19              | 166             |     |  |  |
|                                   | SBOHR    | N/A                     | N/A                      | N/A                     | N/A                      | N/A                     |                              |                             |                     | N/A             | N/A             |     |  |  |
|                                   | SEBR     | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |     |  |  |
| Roosevelt Blvd & Bustleton Ave    | EBL1 (I) | 0                       | 0.0                      | A                       | 1.9                      | A                       | 11.6                         | B                           |                     | 19              | 164             |     |  |  |
|                                   | EBL2 (O) | 9                       | 18.3                     | B                       |                          |                         |                              |                             |                     | 19              | 164             |     |  |  |
|                                   | EBT      | 449                     | 1.4                      | A                       |                          |                         |                              |                             |                     | 2               | 126             |     |  |  |
|                                   | EBR1 (I) | 293                     | 2.2                      | A                       | 5.7                      | A                       |                              |                             |                     | 2               | 126             |     |  |  |
|                                   | EBR2 (O) | 0                       | 0.2                      | A                       |                          |                         |                              |                             |                     | 2               | 126             |     |  |  |
|                                   | WBL1 (I) | 2                       | 31.8                     | C                       | 22.1                     | C                       |                              |                             |                     | 65              | 40              | 208 |  |  |
|                                   | WBL2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 65              | 40              | 208 |  |  |
|                                   | WBT      | 216                     | 6.0                      | A                       |                          |                         |                              |                             |                     | 7               | 62              |     |  |  |
|                                   | WBR1 (J) | 35                      | 4.2                      | A                       | 10.3                     | B                       |                              |                             |                     | 7               | 62              |     |  |  |
|                                   | WBR2 (O) | 92                      | 5.1                      | A                       |                          |                         |                              |                             |                     | 200             | 67              | 252 |  |  |
|                                   | NBIL     | 237                     | 56.6                     | E                       |                          |                         |                              |                             |                     | 67              | 252             |     |  |  |
|                                   | NBIT     | 1264                    | 15.6                     | B                       | 12.9                     | B                       |                              |                             |                     | 25              | 399             |     |  |  |
|                                   | NBOT     | 750                     | 10.3                     | B                       |                          |                         |                              |                             |                     | 75              | 267             |     |  |  |
|                                   | SBIL     | 203                     | 16.5                     | B                       |                          |                         |                              |                             |                     | 70              | 254             |     |  |  |
|                                   | SBIT     | 2308                    | 12.6                     | B                       | 1.6                      | A                       |                              |                             |                     | 2               | 57              |     |  |  |
|                                   | SBOT     | 849                     | 1.6                      | A                       |                          |                         |                              |                             |                     |                 |                 |     |  |  |
|                                   | SBOR     | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     |                 |                 |     |  |  |
| Bustleton Ave & Robbins Street    | EBL      | 77                      | 0.9                      | A                       | 0.4                      | A                       | 21.3                         | C                           |                     | 0               | 40              |     |  |  |
|                                   | EBT      | 566                     | 0.3                      | A                       |                          |                         |                              |                             |                     | 0               | 40              |     |  |  |
|                                   | WBT      | 344                     | 39.7                     | D                       | 39.7                     | D                       |                              |                             |                     | 53              | 253             |     |  |  |
|                                   | WBR      | 0                       | 0.0                      | A                       | 33.3                     | C                       |                              |                             |                     | 53              | 253             |     |  |  |
|                                   | NBL      | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |     |  |  |
|                                   | NBT      | 508                     | 31.8                     | C                       |                          |                         |                              |                             |                     | 89              | 460             |     |  |  |
|                                   | NBR      | 89                      | 42.0                     | D                       |                          |                         |                              |                             |                     | 89              | 460             |     |  |  |
| Bustleton Ave & Levick Street     | EBT      | 742                     | 68.1                     | E                       | 68.1                     | E                       | 29.7                         | C                           |                     | 205             | 568             |     |  |  |
|                                   | EBR      | 8                       | 68.2                     | E                       |                          |                         |                              |                             |                     | 205             | 568             |     |  |  |
|                                   | WBL      | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |     |  |  |
|                                   | WBT      | 451                     | 0.3                      | A                       | 4.5                      | A                       |                              |                             |                     | 0               | 8               |     |  |  |
|                                   | SBL      | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |     |  |  |
|                                   | SBT      | 545                     | 4.1                      | A                       |                          |                         |                              |                             |                     | 23              | 80              |     |  |  |
|                                   | SBR      | 70                      | 7.2                      | A                       |                          |                         |                              |                             |                     | 23              | 80              |     |  |  |

## 2025 Build AM (Screen 6 - BAT Lane in S Curve)

| Intersection                       | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |  |
|------------------------------------|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|--|
| Roosevelt Blvd & Levick St         | WBL1 (I) | 703                     | 35.0                     | C                       | 34.2                     | C                       | 17.2                         | B                           |                     | 81              | 332             |  |  |  |
|                                    | WBL2 (O) | 489                     | 33.1                     | C                       |                          |                         |                              |                             |                     | 72              | 318             |  |  |  |
|                                    | WBR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 74              | 325             |  |  |  |
|                                    | NBIT     | 1297                    | 6.0                      | A                       | 6.0                      | A                       |                              |                             |                     | 17              | 104             |  |  |  |
|                                    | NBOT     | 851                     | 8.2                      | A                       | 8.2                      | A                       |                              |                             |                     | 21              | 161             |  |  |  |
|                                    | SBIT     | 1812                    | 21.0                     | C                       | 21.0                     | C                       |                              |                             |                     | 78              | 502             |  |  |  |
|                                    | SBOT     | 972                     | 12.2                     | B                       | 12.2                     | B                       |                              |                             |                     | 31              | 219             |  |  |  |
| Roosevelt Blvd & Haribson Ave      | EBL1 (I) | 61                      | 7.6                      | A                       | 37.7                     | D                       | 20.6                         | C                           |                     | 0               | 70              |  |  |  |
|                                    | EBL2 (O) | 25                      | 6.8                      | A                       |                          |                         |                              |                             |                     | 0               | 70              |  |  |  |
|                                    | EBT      | 592                     | 41.9                     | D                       |                          |                         |                              |                             |                     | 76              | 297             |  |  |  |
|                                    | EBR1 (I) | 17                      | 41.6                     | D                       | 24.0                     | C                       |                              |                             |                     | 76              | 297             |  |  |  |
|                                    | EBR2 (O) | 1                       | 37.5                     | D                       |                          |                         |                              |                             |                     | 76              | 297             |  |  |  |
|                                    | WBL1 (I) | 233                     | 12.6                     | B                       |                          |                         |                              |                             |                     | 30              | 200             |  |  |  |
|                                    | WBL2 (O) | 32                      | 13.2                     | B                       | 11.6                     | B                       |                              |                             |                     | 30              | 200             |  |  |  |
|                                    | WBT      | 339                     | 43.3                     | D                       |                          |                         |                              |                             |                     | 83              | 477             |  |  |  |
|                                    | WBR1 (I) | 96                      | 45.6                     | D                       |                          |                         |                              |                             |                     | 83              | 477             |  |  |  |
|                                    | WBR2 (O) | 290                     | 4.8                      | A                       | 7.7                      | A                       |                              |                             |                     | 0               | 76              |  |  |  |
|                                    | NBIL     | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |  |  |  |
|                                    | NBIT     | 1300                    | 30.4                     | C                       |                          |                         |                              |                             |                     | 76              | 428             |  |  |  |
|                                    | NBOT     | 800                     | 24.2                     | C                       | 23.3                     | C                       |                              |                             |                     | 63              | 355             |  |  |  |
|                                    | NBOR     | 55                      | 10.8                     | B                       |                          |                         |                              |                             |                     | 7               | 347             |  |  |  |
|                                    | SBIL     | 452                     | 32.0                     | C                       |                          |                         |                              |                             |                     | 44              | 266             |  |  |  |
| Roosevelt Blvd & Unruh Ave Ped     | SBIT     | 1554                    | 5.7                      | A                       | 11.6                     | B                       |                              |                             |                     | 18              | 150             |  |  |  |
|                                    | SBOT     | 914                     | 7.5                      | A                       |                          |                         |                              |                             |                     | 22              | 284             |  |  |  |
|                                    | SBOR     | 62                      | 10.7                     | B                       |                          |                         |                              |                             |                     | 22              | 284             |  |  |  |
|                                    | WBR      | 10                      | 0.8                      | A                       | 0.8                      | A                       | 3.4                          | A                           |                     | 0               | 24              |  |  |  |
|                                    | NBIT     | 1421                    | 3.6                      | A                       | 3.6                      | A                       |                              |                             |                     | 1               | 46              |  |  |  |
|                                    | NBOT     | 1081                    | 2.0                      | A                       | 2.1                      | A                       |                              |                             |                     | 3               | 83              |  |  |  |
|                                    | NBOR     | 70                      | 2.4                      | A                       | 4.5                      | A                       |                              |                             |                     | 3               | 83              |  |  |  |
|                                    | SBIT     | 2007                    | 4.5                      | A                       |                          |                         |                              |                             |                     | 3               | 117             |  |  |  |
|                                    | SBOT     | 975                     | 2.2                      | A                       |                          |                         |                              |                             |                     | 8               | 244             |  |  |  |
|                                    | SBOR     | 19                      | 3.8                      | A                       | 2.3                      | A                       |                              |                             |                     | 8               | 244             |  |  |  |
| Roosevelt Blvd & Longshore Ave Ped | WBR      | 20                      | 4.8                      | A                       | 4.8                      | A                       | 3.1                          | A                           |                     | 1               | 47              |  |  |  |
|                                    | NBIT     | 1421                    | 3.6                      | A                       | 3.6                      | A                       |                              |                             |                     | 1               | 46              |  |  |  |
|                                    | NBOT     | 1111                    | 5.9                      | A                       | 5.9                      | A                       |                              |                             |                     | 4               | 106             |  |  |  |
|                                    | NBOR     | 3                       | 6.1                      | A                       | 4.0                      | A                       |                              |                             |                     | 4               | 126             |  |  |  |
|                                    | EBR      | 1                       | 4.0                      | A                       |                          |                         |                              |                             |                     | 0               | 28              |  |  |  |
|                                    | SBIT     | 2008                    | 2.2                      | A                       |                          |                         |                              |                             |                     | 4               | 94              |  |  |  |
|                                    | SBOT     | 992                     | 0.9                      | A                       | 0.9                      | A                       |                              |                             |                     | 7               | 240             |  |  |  |
|                                    | SBOR     | 0                       | 0.0                      | A                       | 39.5                     | D                       | D                            |                             |                     | 9               | 253             |  |  |  |
| Roosevelt Blvd & Tyson Ave         | EBL1 (I) | 121                     | 9.2                      | A                       |                          |                         |                              |                             |                     | 24              | 174             |  |  |  |
|                                    | EBL2 (O) | 11                      | 9.4                      | A                       |                          |                         |                              |                             |                     | 24              | 174             |  |  |  |
|                                    | EBT      | 453                     | 37.2                     | D                       | 31.1                     | C                       |                              |                             |                     | 58              | 352             |  |  |  |
|                                    | EBR1 (I) | 9                       | 38.1                     | D                       |                          |                         |                              |                             |                     | 58              | 352             |  |  |  |
|                                    | EBR2 (O) | 2                       | 40.7                     | D                       |                          |                         |                              |                             |                     | 58              | 352             |  |  |  |
|                                    | WBL1 (I) | 246                     | 5.6                      | A                       | 53.6                     | D                       |                              |                             |                     | 38              | 191             |  |  |  |
|                                    | WBL2 (O) | 47                      | 5.9                      | A                       |                          |                         |                              |                             |                     | 38              | 191             |  |  |  |
|                                    | WBT      | 621                     | 76.7                     | E                       |                          |                         |                              |                             |                     | 193             | 552             |  |  |  |
|                                    | WBR1 (I) | 124                     | 54.8                     | D                       | 17.8                     | B                       |                              |                             |                     | 193             | 552             |  |  |  |
|                                    | WBR2 (O) | 84                      | 49.0                     | D                       |                          |                         |                              |                             |                     | 193             | 552             |  |  |  |
|                                    | NBIL     | 102                     | 65.6                     | E                       |                          |                         |                              |                             |                     | 146             | 474             |  |  |  |
|                                    | NBIT     | 1314                    | 50.3                     | D                       | 46.7                     | D                       |                              |                             |                     | 146             | 474             |  |  |  |
|                                    | NBOT     | 989                     | 46.0                     | D                       |                          |                         |                              |                             |                     | 460             | 151             |  |  |  |
|                                    | NBOR     | 143                     | 52.0                     | D                       |                          |                         |                              |                             |                     | 460             | 151             |  |  |  |
|                                    | SBIL     | 217                     | 45.5                     | D                       | 31.6                     | C                       |                              |                             |                     | 790             | 113             |  |  |  |
|                                    | SBIT     | 1753                    | 29.8                     | C                       |                          |                         |                              |                             |                     | 790             | 113             |  |  |  |
|                                    | SBOT     | 943                     | 17.8                     | B                       |                          |                         |                              |                             |                     | 52              | 362             |  |  |  |
|                                    | SBOR     | 8                       | 18.8                     | B                       | 6.7                      | A                       |                              |                             |                     | 52              | 362             |  |  |  |
| Roosevelt Blvd & Friendship St Ped | NBIT     | 1449                    | 2.3                      | A                       |                          |                         |                              |                             |                     | 0               | 41              |  |  |  |
|                                    | NBOT     | 1107                    | 2.6                      | A                       |                          |                         |                              |                             |                     | 1               | 89              |  |  |  |
|                                    | SBIT     | 1839                    | 14.8                     | B                       | 14.8                     | B                       |                              |                             |                     | 28              | 515             |  |  |  |
|                                    | SBOT     | 1093                    | 3.0                      | A                       |                          |                         |                              |                             |                     | 9               | 268             |  |  |  |
|                                    | SBOR     | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 10              | 281             |  |  |  |

## 2025 Build AM (Screen 6 - BAT Lane in S Curve)

| Intersection                            | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|---|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Cottman Ave            | EBL       | 152                     | 12.4                     | B                       | 19.0                     | B                       | 20.3                         | C                           |                     | 14              | 136             |  |  |
|   | EBT       | 737                     | 19.7                     | B                       |                          |                         |                              |                             |                     | 47              | 216             |  |  |
|   | EBR       | 120                     | 23.3                     | C                       |                          |                         |                              |                             |                     | 47              | 217             |  |  |
|   | WBL       | 246                     | 9.6                      | A                       | 22.2                     | C                       |                              |                             |                     | 24              | 202             |  |  |
|   | WBT       | 926                     | 24.8                     | C                       |                          |                         |                              |                             |                     | 58              | 276             |  |  |
|   | WBR       | 127                     | 27.8                     | C                       |                          |                         |                              |                             |                     | 58              | 276             |  |  |
|   | NBL       | 369                     | 28.9                     | C                       | 23.6                     | C                       |                              |                             |                     | 62              | 363             |  |  |
|   | NBT       | 643                     | 21.6                     | C                       |                          |                         |                              |                             |                     | 62              | 363             |  |  |
|   | NBR       | 111                     | 17.0                     | B                       |                          |                         |                              |                             |                     | 62              | 363             |  |  |
|   | SBL       | 180                     | 16.2                     | B                       | 15.6                     | B                       |                              |                             |                     | 47              | 305             |  |  |
|   | SBT       | 727                     | 14.6                     | B                       |                          |                         |                              |                             |                     | 47              | 305             |  |  |
|   | SBR       | 101                     | 22.4                     | C                       |                          |                         |                              |                             |                     | 47              | 305             |  |  |
| Roosevelt Blvd & Borbeck Ave - Ryan Ave | EGL1 (I)  | 16                      | 39.9                     | D                       | 39.8                     | D                       | 25.6                         | C                           |                     | 56              | 317             |  |  |
|   | EGL2 (O)  | 83                      | 44.7                     | D                       |                          |                         |                              |                             |                     | 56              | 317             |  |  |
|   | EBT       | 130                     | 39.3                     | D                       |                          |                         |                              |                             |                     | 56              | 317             |  |  |
|   | EGL1 (I)  | 73                      | 35.4                     | D                       | 38.8                     | D                       |                              |                             |                     | 56              | 317             |  |  |
|   | EGL2 (O)  | 2                       | 31.2                     | C                       |                          |                         |                              |                             |                     | 56              | 317             |  |  |
|   | WBL1 (I)  | 61                      | 40.5                     | D                       |                          |                         |                              |                             |                     | 80              | 362             |  |  |
|   | WBL2 (O)  | 73                      | 40.6                     | D                       | 43.9                     | D                       |                              |                             |                     | 80              | 362             |  |  |
|   | WBT       | 250                     | 39.8                     | D                       |                          |                         |                              |                             |                     | 80              | 362             |  |  |
|   | WBR1 (I)  | 70                      | 34.2                     | C                       |                          |                         |                              |                             |                     | 80              | 362             |  |  |
|   | WBR2 (O)  | 41                      | 35.2                     | D                       | 28.1                     | C                       |                              |                             |                     | 83              | 367             |  |  |
|   | NBIU1 (I) | 16                      | 60.1                     | E                       |                          |                         |                              |                             |                     | 340             | 48              |  |  |
|   | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 340             | 48              |  |  |
|   | NBL       | 109                     | 75.3                     | E                       | 11.4                     | B                       |                              |                             |                     | 340             | 48              |  |  |
|   | NBIT      | 1376                    | 41.2                     | D                       |                          |                         |                              |                             |                     | 109             | 394             |  |  |
|   | NBOT      | 769                     | 28.8                     | C                       |                          |                         |                              |                             |                     | 62              | 366             |  |  |
|   | NBOR      | 69                      | 20.9                     | C                       | 7.1                      | A                       |                              |                             |                     | 62              | 366             |  |  |
|   | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 315             | 5               |  |  |
|   | SIU2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 315             | 5               |  |  |
|   | SBIL      | 33                      | 32.6                     | C                       | 21.4                     | C                       |                              |                             |                     | 315             | 5               |  |  |
|   | SBIT      | 1682                    | 10.9                     | B                       |                          |                         |                              |                             |                     | 36              | 263             |  |  |
|   | SBOT      | 848                     | 7.0                      | A                       |                          |                         |                              |                             |                     | 26              | 163             |  |  |
|   | SBOR      | 9                       | 13.8                     | B                       |                          |                         |                              |                             |                     | 26              | 163             |  |  |
| Roosevelt Blvd & Rhawn St               | EGL1 (I)  | 34                      | 48.2                     | D                       | 40.8                     | D                       | 27.6                         | C                           |                     | 86              | 433             |  |  |
|   | EGL2 (O)  | 91                      | 49.0                     | D                       |                          |                         |                              |                             |                     | 86              | 433             |  |  |
|   | EBT       | 273                     | 39.0                     | D                       |                          |                         |                              |                             |                     | 86              | 433             |  |  |
|   | EGL1 (I)  | 84                      | 36.9                     | D                       | 42.3                     | D                       |                              |                             |                     | 86              | 433             |  |  |
|   | EGL2 (O)  | 47                      | 37.3                     | D                       |                          |                         |                              |                             |                     | 86              | 433             |  |  |
|   | WBL1 (I)  | 105                     | 47.8                     | D                       |                          |                         |                              |                             |                     | 66              | 260             |  |  |
|   | WBL2 (O)  | 43                      | 50.5                     | D                       | 24.4                     | C                       |                              |                             |                     | 66              | 260             |  |  |
|   | WBT       | 305                     | 40.0                     | D                       |                          |                         |                              |                             |                     | 66              | 260             |  |  |
|   | WBR1 (I)  | 73                      | 38.8                     | D                       |                          |                         |                              |                             |                     | 66              | 260             |  |  |
|   | WBR2 (O)  | 5                       | 46.1                     | D                       | 32.9                     | C                       |                              |                             |                     | 66              | 260             |  |  |
|   | NBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 21              | 141             |  |  |
|   | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 21              | 141             |  |  |
|   | NBIL      | 80                      | 50.1                     | D                       | 21.4                     | C                       |                              |                             |                     | 21              | 141             |  |  |
|   | NBIT      | 1375                    | 31.9                     | C                       |                          |                         |                              |                             |                     | 87              | 308             |  |  |
|   | NBOT      | 848                     | 24.0                     | C                       |                          |                         |                              |                             |                     | 60              | 279             |  |  |
|   | NBOR      | 43                      | 33.4                     | C                       | 15.4                     | B                       |                              |                             |                     | 61              | 281             |  |  |
|   | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 350             | 26              |  |  |
|   | SIU2 (O)  | 17                      | 35.5                     | D                       |                          |                         |                              |                             |                     | 350             | 26              |  |  |
|   | SBIL      | 85                      | 52.8                     | D                       | 44.3                     | D                       |                              |                             |                     | 350             | 26              |  |  |
|   | SBIT      | 1532                    | 19.5                     | B                       |                          |                         |                              |                             |                     | 56              | 330             |  |  |
|   | SBOT      | 764                     | 15.6                     | B                       |                          |                         |                              |                             |                     | 43              | 247             |  |  |
|   | SBOR      | 25                      | 10.3                     | B                       | 36.6                     | D                       |                              |                             |                     | 45              | 252             |  |  |
| Roosevelt Blvd & Holmes Ave - Solly Ave | EBL       | 18                      | 20.9                     | C                       | 44.3                     | D                       | 27.1                         | C                           |                     | 42              | 252             |  |  |
|   | EBT       | 319                     | 45.7                     | D                       |                          |                         |                              |                             |                     | 51              | 187             |  |  |
|   | EBR       | 0                       | 8.4                      | A                       |                          |                         |                              |                             |                     | 51              | 187             |  |  |
|   | WBL       | 275                     | 44.7                     | D                       | 27.5                     | C                       |                              |                             |                     | 57              | 303             |  |  |
|   | WBT       | 326                     | 35.0                     | D                       |                          |                         |                              |                             |                     | 54              | 302             |  |  |
|   | WBR       | 132                     | 23.4                     | C                       |                          |                         |                              |                             |                     | 6               | 200             |  |  |
|   | NBL       | 33                      | 17.5                     | B                       | 11.8                     | B                       |                              |                             |                     | 63              | 231             |  |  |
|   | NBT       | 719                     | 29.3                     | C                       |                          |                         |                              |                             |                     | 63              | 231             |  |  |
|   | NBR       | 190                     | 22.5                     | C                       |                          |                         |                              |                             |                     | 63              | 231             |  |  |
|   | SBL       | 292                     | 21.6                     | C                       | 11.8                     | B                       |                              |                             |                     | 27              | 207             |  |  |
|   | SBT       | 570                     | 6.8                      | A                       |                          |                         |                              |                             |                     | 26              | 203             |  |  |
|   | SBR       | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 26              | 203             |  |  |

### 2025 Build AM (Screen 6 - BAT Lane in S Curve)

| Intersection                 | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |     |  |  |
|------------------------------|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|-----|--|--|
| Roosevelt Blvd & Strahle St  | EBL1 (I)  | 78                      | 43.2                     | D                       | 42.8                     | D                       | 13.0                         | B                           |                     | 33              | 147             |     |  |  |
|                              | EBR1 (I)  | 69                      | 42.6                     | D                       |                          |                         |                              |                             |                     | 33              | 147             |     |  |  |
|                              | EBR2 (O)  | 68                      | 42.5                     | D                       |                          |                         |                              |                             |                     | 33              | 147             |     |  |  |
|                              | WBR       | 9                       | 1.8                      | A                       | 1.8                      | A                       |                              |                             |                     | 0               | 26              |     |  |  |
|                              | NBIU2 (O) | 9                       | 78.5                     | E                       |                          | 56                      |                              |                             | 425                 |                 |                 |     |  |  |
|                              | NBIL      | 73                      | 28.6                     | C                       | 19.5                     | B                       |                              |                             |                     | 56              | 425             |     |  |  |
|                              | NBIT      | 1390                    | 18.7                     | B                       |                          |                         |                              |                             |                     | 56              | 425             |     |  |  |
|                              | NBOT      | 875                     | 8.1                      | A                       | 8.0                      | A                       |                              |                             |                     | 1               | 109             |     |  |  |
|                              | NBOR      | 17                      | 4.0                      | A                       |                          |                         |                              |                             |                     | 28              | 233             |     |  |  |
|                              | SBIT      | 1568                    | 7.7                      | A                       | 7.7                      | A                       |                              |                             |                     | 23              | 205             |     |  |  |
|                              | SBOT      | 686                     | 8.0                      | A                       | 8.5                      | A                       |                              |                             |                     | 16              | 153             |     |  |  |
|                              | SBOR      | 25                      | 22.3                     | C                       |                          |                         |                              |                             |                     | 16              | 153             |     |  |  |
| Roosevelt Blvd & Woodward St | EBL1 (I)  | 5                       | 44.7                     | D                       | 43.0                     | D                       | 17.4                         | B                           |                     | 22              | 156             |     |  |  |
|                              | EBL2 (O)  | 118                     | 40.0                     | D                       |                          |                         |                              |                             |                     | 22              | 156             |     |  |  |
|                              | EBT       | 0                       | 0.0                      | A                       | 35.2                     | D                       |                              |                             |                     | 31              | 239             |     |  |  |
|                              | EBR1 (I)  | 139                     | 45.5                     | D                       |                          |                         |                              |                             |                     | 31              | 239             |     |  |  |
|                              | EBR2 (O)  | 0                       | 0.0                      | A                       | 21.1                     | C                       |                              |                             |                     | 31              | 239             |     |  |  |
|                              | WBL1 (I)  | 57                      | 35.4                     | D                       | 35.2                     | D                       |                              |                             |                     | 230             | 18              | 178 |  |  |
|                              | WBL2 (O)  | 48                      | 34.5                     | C                       |                          |                         |                              |                             |                     | 230             | 18              | 178 |  |  |
|                              | WBT       | 114                     | 35.2                     | D                       | 17.4                     | B                       |                              |                             |                     | 230             | 27              | 220 |  |  |
|                              | WBR1 (I)  | 25                      | 36.4                     | D                       |                          |                         |                              |                             |                     | 230             | 27              | 220 |  |  |
|                              | WBR2 (O)  | 8                       | 34.9                     | C                       | 9.5                      | A                       |                              |                             |                     | 230             | 27              | 220 |  |  |
|                              | NBIU1 (I) | 28                      | 57.8                     | E                       | 8.8                      | A                       |                              |                             |                     | 69              | 372             |     |  |  |
|                              | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 0               | 0               |     |  |  |
|                              | NBIL      | 80                      | 57.9                     | E                       | 45.6                     | D                       |                              |                             |                     | 69              | 372             |     |  |  |
|                              | NBIT      | 1360                    | 18.2                     | B                       |                          |                         |                              |                             |                     | 69              | 372             |     |  |  |
|                              | NBOT      | 780                     | 16.4                     | B                       | 40.8                     | D                       |                              |                             |                     | 39              | 263             |     |  |  |
|                              | NBOR      | 55                      | 32.3                     | C                       |                          |                         |                              |                             |                     | 39              | 263             |     |  |  |
|                              | SBIU1 (I) | 0                       | 0.0                      | A                       | 50.4                     | D                       | 32.4                         | C                           |                     | 220             | 24              | 174 |  |  |
|                              | SIU2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 220             | 0               | 0   |  |  |
|                              | SBIL      | 9                       | 39.5                     | D                       | 12.3                     | B                       |                              |                             |                     | 220             | 24              | 174 |  |  |
|                              | SBIT      | 1363                    | 9.3                      | A                       |                          |                         |                              |                             |                     | 22              | 174             |     |  |  |
|                              | SBOT      | 646                     | 9.1                      | A                       | 5.8                      | A                       |                              |                             |                     | 22              | 168             |     |  |  |
|                              | SBOR      | 48                      | 4.8                      | A                       |                          |                         |                              |                             |                     | 22              | 168             |     |  |  |
| Roosevelt Blvd & Welsh Rd    | EBL1 (I)  | 3                       | 32.5                     | C                       | 45.6                     | D                       | 32.4                         | C                           |                     | 5               | 57              |     |  |  |
|                              | EBL2 (O)  | 35                      | 46.0                     | D                       |                          |                         |                              |                             |                     | 5               | 57              |     |  |  |
|                              | EBT       | 276                     | 45.7                     | D                       | 35.2                     | D                       |                              |                             |                     | 120             | 480             |     |  |  |
|                              | EBR1 (I)  | 164                     | 45.6                     | D                       |                          |                         |                              |                             |                     | 120             | 480             |     |  |  |
|                              | EBR2 (O)  | 45                      | 45.7                     | D                       | 17.4                     | B                       |                              |                             |                     | 120             | 480             |     |  |  |
|                              | WBL1 (I)  | 49                      | 40.1                     | D                       | 50.4                     | D                       |                              |                             |                     | 21              | 139             |     |  |  |
|                              | WBL2 (O)  | 83                      | 51.2                     | D                       |                          |                         |                              |                             |                     | 21              | 139             |     |  |  |
|                              | WBT       | 368                     | 38.8                     | D                       | 35.2                     | D                       |                              |                             |                     | 81              | 448             |     |  |  |
|                              | WBR1 (I)  | 18                      | 37.3                     | D                       |                          |                         |                              |                             |                     | 81              | 448             |     |  |  |
|                              | WBR2 (O)  | 20                      | 40.4                     | D                       | 12.3                     | B                       |                              |                             |                     | 81              | 448             |     |  |  |
|                              | NBIU1 (I) | 0                       | 0.0                      | A                       | 5.8                      | A                       |                              |                             |                     | 139             | 403             |     |  |  |
|                              | NBIU2 (O) | 14                      | 56.5                     | E                       |                          |                         |                              |                             |                     | 139             | 403             |     |  |  |
|                              | NBIL      | 165                     | 54.0                     | D                       | 35.2                     | D                       |                              |                             |                     | 139             | 403             |     |  |  |
|                              | NBIT      | 1208                    | 49.8                     | D                       |                          |                         |                              |                             |                     | 139             | 403             |     |  |  |
|                              | NBOT      | 833                     | 38.5                     | D                       | 12.3                     | B                       |                              |                             |                     | 91              | 406             |     |  |  |
|                              | NBOR      | 118                     | 12.0                     | B                       |                          |                         |                              |                             |                     | 91              | 406             |     |  |  |
|                              | SIU2 (O)  | 0                       | 0.0                      | A                       | 5.8                      | A                       |                              |                             |                     | 34              | 232             |     |  |  |
|                              | SBIL      | 59                      | 74.7                     | E                       |                          |                         |                              |                             |                     | 34              | 232             |     |  |  |
|                              | SBIT      | 1151                    | 9.1                      | A                       | 5.8                      | A                       |                              |                             |                     | 34              | 232             |     |  |  |
|                              | SBOT      | 543                     | 5.8                      | A                       |                          |                         |                              |                             |                     | 18              | 162             |     |  |  |
|                              | SBOR      | 8                       | 4.8                      | A                       |                          |                         |                              |                             |                     | 18              | 162             |     |  |  |

## 2025 Build AM (Screen 6 - BAT Lane in S Curve)

| Intersection                               | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|--|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Goodnow St                | EBL1 (I)  | 14                      | 32.7                     | C                       | 30.8                     | C                       | 27.0                         | C                           |                     | 19              | 130             |  |  |
|  | EBL2 (O)  | 92                      | 30.5                     | C                       |                          |                         |                              |                             |                     | 19              | 130             |  |  |
|  | EBT       | 1                       | 26.6                     | C                       |                          |                         |                              |                             |                     | 19              | 130             |  |  |
|  | EBR1 (I)  | 34                      | 31.2                     | C                       |                          |                         |                              |                             |                     | 19              | 130             |  |  |
|  | EBR2 (O)  | 21                      | 30.0                     | C                       |                          |                         |                              |                             |                     | 19              | 130             |  |  |
|  | WBL1 (I)  | 17                      | 27.8                     | C                       | 28.5                     | C                       |                              |                             |                     | 5               | 59              |  |  |
|  | WBL2 (O)  | 0                       | 4.6                      | A                       |                          |                         |                              |                             |                     | 5               | 59              |  |  |
|  | WBT       | 0                       | 20.4                     | C                       |                          |                         |                              |                             |                     | 5               | 59              |  |  |
|  | WBR1 (I)  | 24                      | 29.6                     | C                       | 31.2                     | C                       |                              |                             |                     | 5               | 59              |  |  |
|  | WBR2 (O)  | 2                       | 27.1                     | C                       |                          |                         |                              |                             |                     | 2               | 61              |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 74              | 334             |  |  |
|  | NBIU2 (O) | 0                       | 0.0                      | A                       | 26.3                     | C                       |                              |                             |                     | 74              | 334             |  |  |
|  | NBIL      | 21                      | 33.8                     | C                       |                          |                         |                              |                             |                     | 74              | 334             |  |  |
|  | NBIT      | 1202                    | 31.2                     | C                       |                          |                         |                              |                             |                     | 74              | 334             |  |  |
|  | NBOT      | 880                     | 26.3                     | C                       | 26.0                     | C                       |                              |                             |                     | 73              | 297             |  |  |
|  | NBOR      | 9                       | 27.0                     | C                       |                          |                         |                              |                             |                     | 73              | 297             |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 64              | 479             |  |  |
|  | SIU2 (O)  | 0                       | 0.0                      | A                       | 20.2                     | C                       |                              |                             |                     | 64              | 479             |  |  |
|  | SBIL      | 45                      | 54.1                     | D                       |                          |                         |                              |                             | 220                 | 64              | 479             |  |  |
|  | SBIT      | 1152                    | 24.9                     | C                       |                          |                         |                              |                             |                     | 64              | 479             |  |  |
|  | SBOT      | 529                     | 20.3                     | C                       |                          |                         |                              |                             |                     | 35              | 264             |  |  |
|  | SBOR      | 51                      | 19.2                     | B                       |                          |                         |                              |                             |                     | 32              | 264             |  |  |
| Roosevelt Blvd & Grant Ave                 | EBL1 (I)  | 56                      | 53.8                     | D                       | 38.0                     | D                       | 36.9                         | D                           |                     | 24              | 305             |  |  |
|  | EBL2 (O)  | 100                     | 52.3                     | D                       |                          |                         |                              |                             |                     | 24              | 305             |  |  |
|  | EBT       | 775                     | 35.2                     | D                       |                          |                         |                              |                             |                     | 86              | 412             |  |  |
|  | EBR1 (I)  | 60                      | 35.8                     | D                       | 37.4                     | D                       |                              |                             |                     | 86              | 412             |  |  |
|  | EBR2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 86              | 412             |  |  |
|  | WBL1 (I)  | 45                      | 47.7                     | D                       |                          |                         |                              |                             |                     | 25              | 169             |  |  |
|  | WBL2 (O)  | 114                     | 50.3                     | D                       | 46.3                     | D                       |                              |                             |                     | 25              | 169             |  |  |
|  | WBT       | 899                     | 35.8                     | D                       |                          |                         |                              |                             |                     | 90              | 417             |  |  |
|  | WBR1 (I)  | 112                     | 33.5                     | C                       |                          |                         |                              |                             |                     | 90              | 417             |  |  |
|  | WBR2 (O)  | 12                      | 34.1                     | C                       | 44.8                     | D                       |                              |                             |                     | 90              | 417             |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 124             | 418             |  |  |
|  | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 124             | 418             |  |  |
|  | NBIL      | 155                     | 72.3                     | E                       | 26.4                     | C                       |                              |                             |                     | 124             | 418             |  |  |
|  | NBIT      | 1075                    | 42.5                     | D                       |                          |                         |                              |                             |                     | 109             | 517             |  |  |
|  | NBOT      | 772                     | 45.2                     | D                       |                          |                         |                              |                             |                     | 110             | 518             |  |  |
|  | NBOR      | 196                     | 43.2                     | D                       | 22.4                     | C                       |                              |                             |                     | 71              | 397             |  |  |
|  | SBIU1 (I) | 1                       | 35.0                     | C                       |                          |                         |                              |                             |                     | 71              | 397             |  |  |
|  | SIU2 (O)  | 2                       | 74.5                     | E                       |                          |                         |                              |                             |                     | 71              | 397             |  |  |
|  | SBIL      | 280                     | 57.0                     | E                       | 17.4                     | A                       |                              |                             |                     | 71              | 397             |  |  |
|  | SBIT      | 1091                    | 18.5                     | B                       |                          |                         |                              |                             |                     | 59              | 246             |  |  |
|  | SBOT      | 411                     | 20.2                     | C                       |                          |                         |                              |                             |                     | 58              | 246             |  |  |
| Roosevelt Blvd & Whitman Plaza - Fulmer St | EBR       | 39                      | 1.3                      | A                       | 1.3                      | A                       | 15.9                         | B                           |                     | 0               | 41              |  |  |
|  | WBL       | 2                       | 33.5                     | C                       | 30.0                     | C                       |                              |                             |                     | 14              | 119             |  |  |
|  | WBR1 (I)  | 56                      | 31.8                     | C                       |                          |                         |                              |                             |                     | 14              | 119             |  |  |
|  | WBR2 (O)  | 32                      | 26.7                     | C                       | 17.4                     | B                       |                              |                             |                     | 14              | 119             |  |  |
|  | NBIU      | 1                       | 9.2                      | A                       |                          |                         |                              |                             |                     | 50              | 327             |  |  |
|  | NBIT      | 1240                    | 17.4                     | B                       |                          |                         |                              |                             |                     | 50              | 327             |  |  |
|  | NBOT      | 791                     | 24.5                     | C                       | 24.4                     | C                       |                              |                             |                     | 54              | 464             |  |  |
|  | NBOR      | 96                      | 23.8                     | C                       |                          |                         |                              |                             |                     | 54              | 464             |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 41              | 499             |  |  |
|  | SBIU2 (O) | 6                       | 72.3                     | E                       | 11.4                     | B                       |                              |                             |                     | 41              | 499             |  |  |
|  | SBIL      | 65                      | 66.7                     | E                       |                          |                         |                              |                             |                     | 41              | 499             |  |  |
|  | SBIT      | 1366                    | 8.6                      | A                       |                          |                         |                              |                             |                     | 41              | 499             |  |  |
| Roosevelt Blvd & Lott Street               | SBOT      | 423                     | 7.2                      | A                       | 7.2                      | A                       | 19.8                         | B                           |                     | 15              | 210             |  |  |
|  | SBOR      | 4                       | 6.2                      | A                       | 42.6                     | D                       |                              |                             |                     | 15              | 210             |  |  |
|  | EBL1 (I)  | 133                     | 42.1                     | D                       |                          |                         |                              |                             |                     | 37              | 235             |  |  |
|  | EBR1 (I)  | 65                      | 44.2                     | D                       |                          |                         |                              |                             |                     | 37              | 235             |  |  |
|  | EBR2 (O)  | 10                      | 39.3                     | D                       | 19.7                     | B                       |                              |                             |                     | 37              | 235             |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 53              | 496             |  |  |
|  | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 53              | 496             |  |  |
|  | NBIL      | 57                      | 39.9                     | D                       |                          |                         |                              |                             |                     | 53              | 496             |  |  |
|  | NBIT      | 1247                    | 18.8                     | B                       | 18.0                     | B                       |                              |                             |                     | 53              | 496             |  |  |
|  | NBOT      | 836                     | 18.0                     | B                       |                          |                         |                              |                             |                     | 42              | 505             |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       | 16.1                     | B                       |                              |                             |                     | 57              | 440             |  |  |
|  | SBIT      | 1412                    | 18.8                     | B                       |                          |                         |                              |                             |                     | 57              | 440             |  |  |
|  | SBOT      | 428                     | 16.1                     | B                       |                          |                         |                              |                             |                     | 25              | 211             |  |  |
|  | SBOR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 25              | 211             |  |  |

## 2025 Build AM (Screen 6 - BAT Lane in S Curve)

| Intersection                       | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |     |  |  |
|------------------------------------|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|-----|--|--|
| Roosevelt Blvd & Bowler St Ped     | EBR       | 92                      | 5.4                      | A                       | 5.4                      | A                       | 2.2                          | A                           |                     | 2               | 65              |     |  |  |
|                                    | NBIT      | 1376                    | 2.4                      | A                       | 2.4                      | A                       |                              |                             |                     | 4               | 225             |     |  |  |
|                                    | NBOT      | 834                     | 1.1                      | A                       | 1.1                      | A                       |                              |                             |                     | 5               | 216             |     |  |  |
|                                    | SBIT      | 1404                    | 2.6                      | A                       | 2.6                      | A                       |                              |                             |                     | 0               | 52              |     |  |  |
|                                    | SBOT      | 335                     | 1.1                      | A                       | 1.2                      | A                       |                              |                             |                     | 3               | 127             |     |  |  |
|                                    | SBOR      | 13                      | 3.5                      | A                       |                          |                         |                              |                             |                     | 3               | 127             |     |  |  |
| Roosevelt Blvd & Conwell Ave       | EBL1 (I)  | 133                     | 39.8                     | D                       | 39.8                     | D                       | 15.8                         | B                           |                     | 27              | 166             |     |  |  |
|                                    | EBR1 (I)  | 0                       | 8.2                      | A                       |                          |                         |                              |                             |                     | 27              | 166             |     |  |  |
|                                    | EBR2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 27              | 166             |     |  |  |
|                                    | NBIU1 (I) | 0                       | 0.0                      | A                       | 21.2                     | C                       |                              |                             |                     | 60              | 516             |     |  |  |
|                                    | NBIU2 (O) | 13                      | 63.2                     | E                       |                          |                         |                              |                             |                     | 60              | 516             |     |  |  |
|                                    | NBIL      | 58                      | 72.1                     | E                       |                          |                         |                              |                             |                     | 60              | 516             |     |  |  |
|                                    | NBIT      | 1288                    | 18.5                     | B                       | 19.4                     | B                       |                              |                             |                     | 60              | 516             |     |  |  |
|                                    | NBOT      | 820                     | 19.4                     | B                       |                          |                         |                              |                             |                     | 40              | 467             |     |  |  |
|                                    | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 18              | 182             |     |  |  |
|                                    | SBIT      | 1402                    | 9.0                      | A                       | 9.0                      | A                       |                              |                             |                     | 18              | 182             |     |  |  |
|                                    | SBOT      | 335                     | 3.6                      | A                       |                          |                         |                              |                             |                     | 13              | 137             |     |  |  |
|                                    | SBOR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 9               | 137             |     |  |  |
| Roosevelt Blvd & Red Lion Rd       | EBL1 (I)  | 49                      | 47.8                     | D                       | 45.4                     | D                       | 32.1                         | C                           |                     | 270             | 22              | 157 |  |  |
|                                    | EBL2 (O)  | 75                      | 48.4                     | D                       |                          |                         |                              |                             |                     | 270             | 22              | 157 |  |  |
|                                    | EBT       | 513                     | 42.7                     | D                       |                          |                         |                              |                             |                     | 134             | 509             |     |  |  |
|                                    | EBR1 (I)  | 284                     | 49.2                     | D                       | 44.4                     | D                       |                              |                             |                     | 134             | 509             |     |  |  |
|                                    | EBR2 (O)  | 50                      | 46.2                     | D                       |                          |                         |                              |                             |                     | 134             | 509             |     |  |  |
|                                    | WBL1 (I)  | 63                      | 48.7                     | D                       |                          |                         |                              |                             |                     | 22              | 157             |     |  |  |
|                                    | WBL2 (O)  | 66                      | 56.0                     | E                       | 38.6                     | D                       |                              |                             |                     | 22              | 157             |     |  |  |
|                                    | WBT       | 452                     | 42.5                     | D                       |                          |                         |                              |                             |                     | 117             | 497             |     |  |  |
|                                    | WBR1 (I)  | 2                       | 45.7                     | D                       |                          |                         |                              |                             |                     | 117             | 497             |     |  |  |
|                                    | WBR2 (O)  | 49                      | 41.1                     | D                       | 32.0                     | C                       |                              |                             |                     | 117             | 497             |     |  |  |
|                                    | NBIU1 (I) | 1                       | 41.7                     | D                       |                          |                         |                              |                             |                     | 100             | 477             |     |  |  |
|                                    | NBIU2 (O) | 1                       | 59.4                     | E                       |                          |                         |                              |                             |                     | 100             | 477             |     |  |  |
|                                    | NBIL      | 217                     | 68.1                     | E                       | 12.9                     | B                       |                              |                             |                     | 100             | 477             |     |  |  |
|                                    | NBIT      | 1205                    | 33.3                     | C                       |                          |                         |                              |                             |                     | 66              | 489             |     |  |  |
|                                    | NBOT      | 662                     | 32.3                     | C                       |                          |                         |                              |                             |                     | 66              | 489             |     |  |  |
|                                    | NBOR      | 162                     | 30.6                     | C                       | 12.9                     | B                       |                              |                             |                     | 45              | 200             |     |  |  |
|                                    | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 45              | 200             |     |  |  |
|                                    | SIU2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 45              | 200             |     |  |  |
|                                    | SBIL      | 89                      | 50.7                     | D                       | 12.9                     | B                       |                              |                             |                     | 45              | 200             |     |  |  |
|                                    | SBIT      | 1051                    | 9.8                      | A                       |                          |                         |                              |                             |                     | 45              | 200             |     |  |  |
|                                    | SBOT      | 300                     | 14.2                     | B                       |                          |                         |                              |                             |                     | 27              | 171             |     |  |  |
|                                    | SBOR      | 116                     | 9.5                      | A                       | 12.9                     | B                       |                              |                             |                     | 27              | 171             |     |  |  |
| Roosevelt Blvd & Tomlinson Ave Ped | EBR       | 85                      | 5.9                      | A                       | 5.9                      | A                       | 2.0                          | A                           |                     | 2               | 65              |     |  |  |
|                                    | NBIT      | 1253                    | 1.3                      | A                       | 1.3                      | A                       |                              |                             |                     | 1               | 43              |     |  |  |
|                                    | NBOT      | 782                     | 2.9                      | A                       | 2.9                      | A                       |                              |                             |                     | 1               | 75              |     |  |  |
|                                    | SBIT      | 1138                    | 2.0                      | A                       | 2.0                      | A                       |                              |                             |                     | 0               | 17              |     |  |  |
|                                    | SBOT      | 333                     | 1.3                      | A                       | 1.3                      | A                       |                              |                             |                     | 0               | 40              |     |  |  |
|                                    | SBOR      | 1                       | 2.4                      | A                       |                          |                         |                              |                             |                     | 1               | 74              |     |  |  |
| Roosevelt Blvd & Haldeman Ave      | EBL1 (I)  | 405                     | 52.1                     | D                       | 49.0                     | D                       | 17.8                         | B                           |                     | 104             | 389             |     |  |  |
|                                    | EBL2 (O)  | 233                     | 43.7                     | D                       |                          |                         |                              |                             |                     | 104             | 389             |     |  |  |
|                                    | EBT       | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 104             | 389             |     |  |  |
|                                    | EBR2 (O)  | 0                       | 0.0                      | A                       | 17.1                     | B                       |                              |                             |                     | 111             | 398             |     |  |  |
|                                    | WBL1 (I)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 1               | 33              |     |  |  |
|                                    | WBL2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 1               | 33              |     |  |  |
|                                    | WBR1 (I)  | 7                       | 31.4                     | C                       |                          |                         |                              |                             |                     | 1               | 33              |     |  |  |
|                                    | WBR2 (O)  | 8                       | 4.5                      | A                       | 17.4                     | B                       |                              |                             |                     | 2               | 45              |     |  |  |
|                                    | NBIT      | 1237                    | 17.4                     | B                       |                          |                         |                              |                             |                     | 30              | 439             |     |  |  |
|                                    | NBOT      | 740                     | 16.5                     | B                       |                          |                         |                              |                             |                     | 30              | 411             |     |  |  |
|                                    | NBOR      | 25                      | 11.4                     | B                       | 16.3                     | B                       |                              |                             |                     | 30              | 411             |     |  |  |
|                                    | SBIT      | 1138                    | 2.7                      | A                       |                          |                         |                              |                             |                     | 7               | 70              |     |  |  |
|                                    | SBOT      | 334                     | 15.8                     | B                       |                          |                         |                              |                             |                     | 17              | 129             |     |  |  |
|                                    | SBOR      | 531                     | 16.5                     | B                       | 16.2                     | B                       |                              |                             |                     | 44              | 445             |     |  |  |

### 2025 Build AM (Screen 6 - BAT Lane in S Curve)

| Intersection                | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|-----------------------------|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Plaza Dr   | EBL1 (I)  | 0                       | 0.0                      | A                       | 37.6                     | D                       | 7.1                          | A                           |                     | 32              | 161             |  |  |
|                             | EBL2 (O)  | 25                      | 37.7                     | D                       |                          |                         |                              |                             |                     | 32              | 161             |  |  |
|                             | EBT       | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 32              | 161             |  |  |
|                             | EBR1 (I)  | 43                      | 39.4                     | D                       |                          |                         |                              |                             |                     | 32              | 161             |  |  |
|                             | EBR2 (O)  | 134                     | 36.9                     | D                       |                          |                         |                              |                             |                     | 33              | 161             |  |  |
|                             | WBL1 (I)  | 0                       | 0.0                      | A                       | 30.9                     | C                       |                              |                             |                     | 1               | 30              |  |  |
|                             | WBL2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 1               | 30              |  |  |
|                             | WBT       | 1                       | 32.6                     | C                       |                          |                         |                              |                             |                     | 1               | 30              |  |  |
|                             | WBR1 (I)  | 1                       | 31.7                     | C                       |                          |                         |                              |                             |                     | 1               | 30              |  |  |
|                             | WBR2 (O)  | 0                       | 16.5                     | B                       |                          |                         |                              |                             |                     | 230             | 11              |  |  |
|                             | NBIU1 (I) | 7                       | 50.5                     | D                       | 4.2                      | A                       |                              |                             |                     | 230             | 11              |  |  |
|                             | NBIU2 (O) | 15                      | 37.7                     | D                       |                          |                         |                              |                             |                     | 230             | 11              |  |  |
|                             | NBIL      | 43                      | 30.3                     | C                       |                          |                         |                              |                             |                     | 11              | 119             |  |  |
|                             | NBIT      | 1590                    | 2.9                      | A                       |                          |                         |                              |                             |                     | 9               | 177             |  |  |
|                             | NBOT      | 976                     | 3.8                      | A                       | 3.8                      | A                       |                              |                             |                     | 9               | 177             |  |  |
|                             | NBOR      | 6                       | 1.9                      | A                       |                          |                         |                              |                             |                     | 16              | 170             |  |  |
|                             | SBIT      | 1090                    | 7.4                      | A                       |                          |                         |                              |                             |                     | 19              | 287             |  |  |
|                             | SBOT      | 726                     | 7.4                      | A                       | 8.6                      | A                       |                              |                             |                     | 19              | 286             |  |  |
|                             | SBOR      | 189                     | 13.2                     | B                       |                          |                         |                              |                             |                     | 230             | 11              |  |  |
| Roosevelt Blvd & Nabisco Dr | EBL1 (I)  | 0                       | 0.0                      | A                       | 0.0                      | A                       | 11.8                         | B                           |                     | 0               | 0               |  |  |
|                             | EBL2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 0               | 0               |  |  |
|                             | EBR2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 0               | 0               |  |  |
|                             | NBIU1 (I) | 0                       | 0.0                      | A                       | 18.5                     | B                       |                              |                             |                     | 28              | 286             |  |  |
|                             | NBIU2 (O) | 0                       | 8.8                      | A                       |                          |                         |                              |                             |                     | 28              | 286             |  |  |
|                             | NBIL      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 28              | 286             |  |  |
|                             | NBIT      | 1092                    | 18.5                     | B                       |                          |                         |                              |                             |                     | 28              | 286             |  |  |
|                             | NBOT      | 1489                    | 16.9                     | B                       | 16.9                     | B                       |                              |                             |                     | 68              | 313             |  |  |
|                             | SBIT      | 1085                    | 4.1                      | A                       | 4.1                      | A                       |                              |                             |                     | 11              | 110             |  |  |
|                             | SBOT      | 973                     | 5.3                      | A                       | 5.3                      | A                       |                              |                             |                     | 29              | 264             |  |  |
|                             | SBOR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 29              | 264             |  |  |
| Roosevelt Blvd & Comly Rd   | WBL1 (I)  | 115                     | 35.9                     | D                       | 43.4                     | D                       | 19.6                         | B                           |                     | 55              | 297             |  |  |
|                             | WBL2 (O)  | 152                     | 48.9                     | D                       |                          |                         |                              |                             |                     | 55              | 297             |  |  |
|                             | WBR1 (I)  | 210                     | 43.9                     | D                       |                          |                         |                              |                             |                     | 55              | 297             |  |  |
|                             | WBR2 (O)  | 40                      | 40.6                     | D                       |                          |                         |                              |                             |                     | 55              | 297             |  |  |
|                             | NBIT      | 1091                    | 18.3                     | B                       | 18.3                     | B                       |                              |                             |                     | 48              | 241             |  |  |
|                             | NBOT      | 1327                    | 11.5                     | B                       | 12.0                     | B                       |                              |                             |                     | 73              | 266             |  |  |
|                             | NBOR      | 160                     | 16.2                     | B                       |                          |                         |                              |                             |                     | 72              | 266             |  |  |
|                             | SBIU1 (I) | 0                       | 0.0                      | A                       | 24.2                     | C                       |                              |                             |                     | 225             | 96              |  |  |
|                             | SBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 225             | 96              |  |  |
|                             | SBIL      | 258                     | 77.5                     | E                       |                          |                         |                              |                             |                     | 225             | 96              |  |  |
|                             | SBIT      | 970                     | 10.0                     | A                       | 13.2                     | B                       |                              |                             |                     | 855             | 444             |  |  |
|                             | SBOT      | 819                     | 13.2                     | B                       |                          |                         |                              |                             |                     | 27              | 284             |  |  |
| Roosevelt Blvd & Byberry Rd | EBL2 (O)  | 73                      | 53.6                     | D                       | 44.9                     | D                       | 16.8                         | B                           |                     | 49              | 227             |  |  |
|                             | EBR1 (I)  | 80                      | 42.7                     | D                       |                          |                         |                              |                             |                     | 49              | 227             |  |  |
|                             | EBR2 (O)  | 113                     | 40.9                     | D                       |                          |                         |                              |                             |                     | 49              | 227             |  |  |
|                             | NBIU1 (I) | 0                       | 0.0                      | A                       | 18.7                     | B                       |                              |                             |                     | 73              | 377             |  |  |
|                             | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 73              | 377             |  |  |
|                             | NBIL      | 167                     | 64.7                     | E                       |                          |                         |                              |                             |                     | 73              | 377             |  |  |
|                             | NBIT      | 1122                    | 11.8                     | B                       | 2.2                      | A                       |                              |                             |                     | 73              | 377             |  |  |
|                             | NBOT      | 878                     | 1.9                      | A                       |                          |                         |                              |                             |                     | 1               | 56              |  |  |
|                             | NBOR      | 486                     | 2.9                      | A                       | 23.4                     | C                       |                              |                             |                     | 0               | 2               |  |  |
|                             | SBIT      | 1152                    | 23.4                     | C                       |                          |                         |                              |                             |                     | 50              | 404             |  |  |
|                             | SBOT      | 709                     | 23.3                     | C                       |                          |                         |                              |                             |                     | 47              | 281             |  |  |
|                             | SBOR      | 172                     | 3.5                      | A                       | 19.4                     | B                       |                              |                             |                     | 2               | 191             |  |  |

## 2025 Build AM (Screen 6 - BAT Lane in S Curve)

| Intersection                           | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|--|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Hornig Rd - Crown Way | EBL1 (I)  | 43                      | 32.6                     | C                       | 32.4                     | C                       | 14.4                         | B                           |                     | 7               | 75              |  |  |
|  | EBL2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 7               | 75              |  |  |
|  | EBT       | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 7               | 75              |  |  |
|  | EBR1 (I)  | 1                       | 27.5                     | C                       |                          |                         |                              |                             |                     | 7               | 75              |  |  |
|  | EBR2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 7               | 75              |  |  |
|  | WBL1 (I)  | 0                       | 0.0                      | A                       | 30.0                     | C                       |                              |                             |                     | 3               | 47              |  |  |
|  | WBL2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 3               | 47              |  |  |
|  | WBT       | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 3               | 47              |  |  |
|  | WBR1 (I)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 3               | 47              |  |  |
|  | WBR2 (O)  | 21                      | 30.0                     | C                       | 19.8                     | B                       |                              |                             |                     | 3               | 47              |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 320             | 43              |  |  |
|  | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 320             | 43              |  |  |
|  | NBIL      | 145                     | 56.8                     | E                       |                          |                         |                              |                             |                     | 320             | 43              |  |  |
|  | NBIT      | 1050                    | 14.8                     | B                       | 19.8                     | B                       |                              |                             |                     | 43              | 406             |  |  |
|  | NBOT      | 1750                    | 20.5                     | C                       |                          |                         |                              |                             |                     | 84              | 503             |  |  |
|  | NBOR      | 127                     | 10.8                     | B                       |                          |                         |                              |                             |                     | 101             | 533             |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 25              | 148             |  |  |
|  | SIU2 (O)  | 0                       | 0.0                      | A                       | 7.9                      | A                       |                              |                             |                     | 25              | 148             |  |  |
|  | SBIL      | 46                      | 61.2                     | E                       |                          |                         |                              |                             |                     | 25              | 148             |  |  |
|  | SBIT      | 1155                    | 5.8                      | A                       |                          |                         |                              |                             |                     | 25              | 148             |  |  |
|  | SBOT      | 1236                    | 7.2                      | A                       |                          |                         |                              |                             |                     | 52              | 226             |  |  |
|  | SBOR      | 232                     | 9.4                      | A                       | 7.6                      | A                       |                              |                             |                     | 52              | 226             |  |  |
| Roosevelt Blvd & Southampton Rd        | EBL1 (I)  | 0                       | 0.0                      | A                       | 40.5                     | D                       | 72.9                         | E                           |                     | 190             | 96              |  |  |
|  | EBL2 (O)  | 73                      | 51.6                     | D                       |                          |                         |                              |                             |                     | 190             | 96              |  |  |
|  | EBT       | 432                     | 39.4                     | D                       |                          |                         |                              |                             |                     | 96              | 424             |  |  |
|  | EBR1 (I)  | 64                      | 39.6                     | D                       |                          |                         |                              |                             |                     | 190             | 96              |  |  |
|  | EBR2 (O)  | 200                     | 39.2                     | D                       | 135.7                    | F                       |                              |                             |                     | 190             | 95              |  |  |
|  | WBL1 (I)  | 119                     | 229.4                    | F                       |                          |                         |                              |                             |                     | 385             | 426             |  |  |
|  | WBL2 (O)  | 120                     | 225.8                    | F                       |                          |                         |                              |                             |                     | 385             | 426             |  |  |
|  | WBT       | 259                     | 104.2                    | F                       |                          |                         |                              |                             |                     | 426             | 1146            |  |  |
|  | WBR1 (I)  | 117                     | 80.1                     | F                       | 149.0                    | F                       |                              |                             |                     | 385             | 426             |  |  |
|  | WBR2 (O)  | 123                     | 76.1                     | E                       |                          |                         |                              |                             |                     | 385             | 423             |  |  |
|  | NBIU1 (I) | 2                       | 79.9                     | E                       | 37.6                     | D                       |                              |                             |                     | 720             | 102             |  |  |
|  | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 720             | 102             |  |  |
|  | NBIL      | 217                     | 56.2                     | E                       |                          |                         |                              |                             |                     | 720             | 102             |  |  |
|  | NBIT      | 1094                    | 33.8                     | C                       |                          |                         |                              |                             |                     | 102             | 317             |  |  |
|  | NBOT      | 1435                    | 43.3                     | D                       | 44.7                     | D                       |                              |                             |                     | 180             | 532             |  |  |
|  | NBOR      | 112                     | 62.7                     | E                       |                          |                         |                              |                             |                     | 179             | 532             |  |  |
|  | SBIU1 (I) | 1                       | 225.2                    | F                       |                          |                         |                              |                             |                     | 690             | 772             |  |  |
|  | SIU2 (O)  | 1                       | 407.8                    | F                       |                          |                         |                              |                             |                     | 690             | 772             |  |  |
|  | SBIL      | 258                     | 451.8                    | F                       | 49.4                     | D                       |                              |                             |                     | 690             | 772             |  |  |
|  | SBIT      | 1015                    | 71.7                     | E                       |                          |                         |                              |                             |                     | 772             | 1541            |  |  |
|  | SBOT      | 1149                    | 49.5                     | D                       |                          |                         |                              |                             |                     | 158             | 480             |  |  |
|  | SBOR      | 61                      | 47.7                     | D                       |                          |                         |                              |                             |                     | 158             | 480             |  |  |
| Roosevelt Blvd & Northgate Dr          | EBL       | 98                      | 32.3                     | C                       | 20.4                     | C                       | 19.4                         | B                           |                     | 16              | 129             |  |  |
|  | EBT       | 0                       | 4.1                      | A                       |                          |                         |                              |                             |                     | 12              | 128             |  |  |
|  | EBR       | 101                     | 8.8                      | A                       |                          |                         |                              |                             |                     | 29              | 158             |  |  |
|  | WBL       | 12                      | 31.5                     | C                       | 23.7                     | C                       |                              |                             |                     | 3               | 58              |  |  |
|  | WBT       | 4                       | 27.3                     | C                       |                          |                         |                              |                             |                     | 1               | 58              |  |  |
|  | WBR       | 17                      | 17.1                     | B                       |                          |                         |                              |                             |                     | 4               | 72              |  |  |
|  | NBL       | 238                     | 80.6                     | F                       |                          |                         |                              |                             |                     | 94              | 650             |  |  |
|  | NBT       | 2587                    | 15.5                     | B                       | 21.0                     | C                       |                              |                             |                     | 22              | 218             |  |  |
|  | NBR       | 21                      | 23.9                     | C                       |                          |                         |                              |                             |                     | 19              | 210             |  |  |
|  | SBT       | 2498                    | 17.4                     | B                       |                          |                         |                              |                             |                     | 93              | 427             |  |  |
|  | SBR       | 29                      | 15.8                     | B                       |                          |                         |                              |                             |                     | 97              | 433             |  |  |
| Roosevelt Blvd & Old Lincoln Hwy       | EBL       | 129                     | 58.1                     | E                       | 80.3                     | F                       | 20.6                         | C                           |                     | 24              | 114             |  |  |
|  | EBT       | 10                      | 56.0                     | E                       |                          |                         |                              |                             |                     | 25              | 115             |  |  |
|  | EBR       | 464                     | 87.0                     | F                       |                          |                         |                              |                             |                     | 270             | 812             |  |  |
|  | WBL       | 78                      | 67.5                     | E                       | 69.6                     | E                       |                              |                             |                     | 83              | 355             |  |  |
|  | WBT       | 198                     | 70.5                     | E                       |                          |                         |                              |                             |                     | 83              | 355             |  |  |
|  | WBR       | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 99              | 373             |  |  |
|  | NBL       | 391                     | 24.4                     | C                       | 9.0                      | A                       |                              |                             |                     | 39              | 230             |  |  |
|  | NBT       | 2146                    | 6.1                      | A                       |                          |                         |                              |                             |                     | 39              | 230             |  |  |
|  | NBR       | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 33              | 231             |  |  |
|  | SBL       | 13                      | 65.0                     | E                       | 13.0                     | B                       |                              |                             |                     | 113             | 774             |  |  |
|  | SBT       | 1992                    | 15.6                     | B                       |                          |                         |                              |                             |                     | 113             | 786             |  |  |
|  | SBR       | 642                     | 3.9                      | A                       |                          |                         |                              |                             |                     | 235             | 989             |  |  |

## 2025 Build AM (Screen 6.2)

| Intersection                 | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |     |  |  |
|------------------------------|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|-----|--|--|
| Broad St & Roosevelt Blvd    | EBT      | 1973                    | 6.0                      | A                       | 6.0                      | A                       | 12.6                         | B                           |                     | 48              | 437             |     |  |  |
|                              | EBR      | 191                     | 5.6                      | A                       |                          |                         |                              |                             |                     | 48              | 437             |     |  |  |
|                              | WBT      | 721                     | 10.1                     | B                       | 11.2                     | B                       |                              |                             |                     | 23              | 183             |     |  |  |
|                              | WBR      | 256                     | 14.4                     | B                       |                          |                         |                              |                             |                     | 23              | 183             |     |  |  |
|                              | NBT      | 334                     | 25.3                     | C                       | 25.3                     | C                       |                              |                             |                     | 28              | 156             |     |  |  |
|                              | NBR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 28              | 156             |     |  |  |
|                              | SBT      | 844                     | 26.4                     | C                       | 26.4                     | C                       |                              |                             |                     | 130             | 295             |     |  |  |
|                              | SBR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 131             | 297             |     |  |  |
| Broad St & Bristol St        | EBT      | 1847                    | 13.6                     | B                       | 13.6                     | B                       | 12.7                         | B                           |                     | 49              | 293             |     |  |  |
|                              | WBT      | 721                     | 2.1                      | A                       | 2.1                      | A                       |                              |                             |                     | 8               | 81              |     |  |  |
|                              | NBL      | 17                      | 23.9                     | C                       | 23.1                     | C                       |                              |                             |                     | 8               | 90              |     |  |  |
|                              | NBR      | 31                      | 22.7                     | C                       |                          |                         |                              |                             |                     | 7               | 88              |     |  |  |
|                              | SBL      | 290                     | 31.3                     | C                       | 31.3                     | C                       |                              |                             |                     | 54              | 160             |     |  |  |
|                              | SBR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 54              | 160             |     |  |  |
| Roosevelt Blvd & Old York Rd | EBL      | 53                      | 32.5                     | C                       | 35.0                     | D                       | 25.7                         | C                           |                     | 109             | 529             |     |  |  |
|                              | EBT      | 502                     | 35.4                     | D                       |                          |                         |                              |                             |                     | 109             | 529             |     |  |  |
|                              | EBR      | 40                      | 34.0                     | C                       |                          |                         |                              |                             |                     | 109             | 529             |     |  |  |
|                              | WBL      | N/A                     | N/A                      | N/A                     | 23.6                     | C                       |                              |                             |                     | N/A             | N/A             |     |  |  |
|                              | WBT      | 442                     | 27.2                     | C                       |                          |                         |                              |                             |                     | 64              | 219             |     |  |  |
|                              | WBR      | 101                     | 7.7                      | A                       |                          |                         |                              |                             |                     | 73              | 233             |     |  |  |
|                              | NBL      | 41                      | 11.3                     | B                       | 9.4                      | A                       |                              |                             |                     | 295             | 20              | 132 |  |  |
|                              | NBT      | 552                     | 9.2                      | A                       |                          |                         |                              |                             |                     | 295             | 20              | 132 |  |  |
|                              | NBR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 295             | 23              | 141 |  |  |
|                              | SBL      | 37                      | 22.1                     | C                       | 29.8                     | C                       |                              |                             |                     | 85              | 99              | 551 |  |  |
|                              | SBT      | 1174                    | 30.4                     | C                       |                          |                         |                              |                             |                     | 85              | 99              | 551 |  |  |
|                              | SBR      | 57                      | 23.0                     | C                       |                          |                         |                              |                             |                     | 85              | 106             | 562 |  |  |
| Roosevelt Blvd & 9th Street  | EBL1 (I) | 0                       | 0.0                      | A                       | 78.0                     | E                       | 29.1                         | C                           |                     | 33              | 121             |     |  |  |
|                              | EBL2 (O) | 1                       | 18.6                     | B                       |                          |                         |                              |                             |                     | 33              | 121             |     |  |  |
|                              | EBT      | 202                     | 78.1                     | E                       |                          |                         |                              |                             |                     | 498             | 203             | 403 |  |  |
|                              | EBr1 (I) | 85                      | 78.9                     | E                       | 67.3                     | E                       |                              |                             |                     | 498             | 203             | 403 |  |  |
|                              | EBr2 (O) | 145                     | 77.7                     | E                       |                          |                         |                              |                             |                     | 498             | 203             | 403 |  |  |
|                              | WBL1 (I) | 102                     | 15.5                     | B                       |                          |                         |                              |                             |                     | 49              | 171             |     |  |  |
|                              | WBL2 (O) | 112                     | 21.4                     | C                       | 21.7                     | C                       |                              |                             |                     | 49              | 171             |     |  |  |
|                              | WBT      | 356                     | 94.1                     | F                       |                          |                         |                              |                             |                     | 191             | 610             |     |  |  |
|                              | WBR1 (I) | 44                      | 84.9                     | F                       |                          |                         |                              |                             |                     | 191             | 610             |     |  |  |
|                              | WBR2 (O) | 17                      | 76.2                     | E                       | 24.2                     | C                       |                              |                             |                     | 191             | 610             |     |  |  |
|                              | NBIL     | 88                      | 233.7                    | F                       |                          |                         |                              |                             |                     | 400             | 149             | 337 |  |  |
|                              | NBIT     | 1970                    | 14.8                     | B                       |                          |                         |                              |                             |                     | 149             | 337             |     |  |  |
|                              | NBOT     | 1055                    | 19.9                     | B                       | 21.4                     | C                       |                              |                             |                     | 60              | 381             |     |  |  |
|                              | NBOR     | 419                     | 25.2                     | C                       |                          |                         |                              |                             |                     | 60              | 381             |     |  |  |
|                              | SBIL     | 90                      | 145.4                    | F                       |                          |                         |                              |                             |                     | 150             | 118             | 554 |  |  |
|                              | SBIT     | 2274                    | 16.7                     | B                       | 26.3                     | C                       |                              |                             |                     | 118             | 554             |     |  |  |
|                              | SBOT     | 2174                    | 26.3                     | C                       |                          |                         |                              |                             |                     | 800             | 248             | 753 |  |  |
|                              | SBOR     | 16                      | 28.1                     | C                       |                          |                         |                              |                             |                     | 800             | 248             | 753 |  |  |
| Roosevelt Blvd & 7th Street  | EBL1 (I) | 64                      | 3.4                      | A                       | 28.7                     | C                       | 16.8                         | B                           |                     | 515             | 9               | 115 |  |  |
|                              | EBL2 (O) | 259                     | 6.9                      | A                       |                          |                         |                              |                             |                     | 515             | 9               | 115 |  |  |
|                              | EBT      | 288                     | 48.9                     | D                       |                          |                         |                              |                             |                     | 93              | 311             |     |  |  |
|                              | EBr1 (I) | 61                      | 51.0                     | D                       | 12.6                     | B                       |                              |                             |                     | 93              | 311             |     |  |  |
|                              | EBr2 (O) | 5                       | 50.0                     | D                       |                          |                         |                              |                             |                     | 93              | 311             |     |  |  |
|                              | NBIT     | 2008                    | 12.6                     | B                       |                          |                         |                              |                             |                     | 950             | 43              | 278 |  |  |
|                              | NBOT     | 1094                    | 11.2                     | B                       | 11.2                     | B                       |                              |                             |                     | 950             | 33              | 228 |  |  |
|                              | SBIL     | 36                      | 7.1                      | A                       |                          |                         |                              |                             |                     | 15              | 158             |     |  |  |
|                              | SBIT     | 2325                    | 7.9                      | A                       |                          |                         |                              |                             |                     | 15              | 158             |     |  |  |
|                              | SBOT     | 2110                    | 30.7                     | C                       | 7.9                      | A                       |                              |                             |                     | 199             | 534             |     |  |  |
|                              | SBOR     | 217                     | 6.9                      | A                       |                          |                         |                              |                             |                     | 11              | 397             |     |  |  |
| Roosevelt Blvd & 5th Street  | EBL      | 43                      | 20.8                     | C                       | 49.3                     | D                       | 25.2                         | C                           |                     | 280             | 25              | 150 |  |  |
|                              | EBT      | 281                     | 52.3                     | D                       |                          |                         |                              |                             |                     | 280             | 144             | 493 |  |  |
|                              | EBr      | 107                     | 52.5                     | D                       | 42.7                     | D                       |                              |                             |                     | 280             | 144             | 493 |  |  |
|                              | WBL      | 127                     | 15.4                     | B                       |                          |                         |                              |                             |                     | 225             | 66              | 297 |  |  |
|                              | WBT      | 357                     | 51.8                     | D                       |                          |                         |                              |                             |                     | 225             | 110             | 397 |  |  |
|                              | WBR      | 36                      | 49.1                     | D                       | 29.5                     | C                       |                              |                             |                     | 225             | 110             | 397 |  |  |
|                              | NBOL     | 202                     | 34.3                     | C                       |                          |                         |                              |                             |                     | 490             | 98              | 435 |  |  |
|                              | NBOT     | 1056                    | 28.6                     | C                       |                          |                         |                              |                             |                     | 490             | 98              | 435 |  |  |
|                              | NBOR     | 0                       | 0.0                      | A                       | 12.4                     | B                       |                              |                             |                     | 490             | 98              | 435 |  |  |
|                              | SBOL     | 107                     | 15.7                     | B                       |                          |                         |                              |                             |                     | 84              | 257             |     |  |  |
|                              | SBOT     | 1853                    | 12.2                     | B                       |                          |                         |                              |                             |                     | 84              | 257             |     |  |  |
|                              | SBOR     | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 84              | 257             |     |  |  |

## 2025 Build AM (Screen 6.2)

| Intersection                          | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|---------------------------------------|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & 4th-3rd Street       | EBL1 (I)  | 72                      | 4.3                      | A                       | 51.7                     | D                       | 23.1                         | C                           |                     | 5               | 102             |  |  |
|                                       | EBL2 (O)  | 100                     | 4.5                      | A                       |                          |                         |                              |                             |                     | 5               | 102             |  |  |
|                                       | EBT       | 342                     | 70.9                     | E                       |                          |                         |                              |                             |                     | 166             | 292             |  |  |
|                                       | EBR1 (I)  | 16                      | 70.4                     | E                       |                          |                         |                              |                             |                     | 166             | 292             |  |  |
|                                       | EBR2 (O)  | 75                      | 69.0                     | E                       |                          |                         |                              |                             |                     | 166             | 292             |  |  |
|                                       | WBL1 (I)  | 20                      | 3.3                      | A                       | 34.3                     | C                       |                              |                             |                     | 31              | 134             |  |  |
|                                       | WBL2 (O)  | 124                     | 4.2                      | A                       |                          |                         |                              |                             |                     | 31              | 134             |  |  |
|                                       | WBT       | 251                     | 51.2                     | D                       |                          |                         |                              |                             |                     | 68              | 301             |  |  |
|                                       | WBR1 (I)  | 1                       | 57.6                     | E                       | 30.5                     | C                       |                              |                             |                     | 68              | 301             |  |  |
|                                       | WBR2 (O)  | 9                       | 47.8                     | D                       |                          |                         |                              |                             |                     | 68              | 301             |  |  |
|                                       | NBIL      | 136                     | 126.8                    | F                       |                          |                         |                              |                             |                     | 275             | 118             |  |  |
|                                       | NBIT      | 1920                    | 23.7                     | C                       |                          |                         |                              |                             |                     | 118             | 545             |  |  |
|                                       | NBOT      | 1042                    | 11.4                     | B                       |                          |                         |                              |                             |                     | 31              | 198             |  |  |
|                                       | NBOR      | 90                      | 13.4                     | B                       | 11.6                     | B                       |                              |                             |                     | 31              | 198             |  |  |
|                                       | SBIL      | 19                      | 12.8                     | B                       |                          |                         |                              |                             |                     | 32              | 203             |  |  |
|                                       | SBIT      | 2328                    | 8.6                      | A                       |                          |                         |                              |                             |                     | 32              | 203             |  |  |
|                                       | SBOT      | 1768                    | 28.7                     | C                       |                          |                         |                              |                             |                     | 169             | 426             |  |  |
|                                       | SBOR      | 0                       | 0.1                      | A                       |                          |                         |                              |                             |                     | 168             | 426             |  |  |
| Roosevelt Blvd & 2nd St Ped           | WBR       | 0                       | 0.0                      | A                       | 0.0                      | A                       | 3.9                          | A                           |                     | 0               | 0               |  |  |
|                                       | NBIT      | 2037                    | 1.2                      | A                       | 1.2                      | A                       |                              |                             |                     | 4               | 108             |  |  |
|                                       | NBOT      | 1106                    | 7.7                      | A                       | 7.7                      | A                       |                              |                             |                     | 20              | 349             |  |  |
|                                       | SBIT      | 2349                    | 2.3                      | A                       | 2.3                      | A                       |                              |                             |                     | 2               | 79              |  |  |
|                                       | SBOT      | 1897                    | 6.6                      | A                       | 6.6                      | A                       |                              |                             |                     | 27              | 208             |  |  |
| Roosevelt Blvd & Mascher St           | EBL1 (I)  | 122                     | 7.1                      | A                       | 49.1                     | D                       | 21.4                         | C                           |                     | 60              | 215             |  |  |
|                                       | EBL2 (O)  | 128                     | 2.9                      | A                       |                          |                         |                              |                             |                     | 1               | 120             |  |  |
|                                       | EBT       | 595                     | 60.2                     | E                       |                          |                         |                              |                             |                     | 166             | 496             |  |  |
|                                       | EBR1 (I)  | 108                     | 71.1                     | E                       |                          |                         |                              |                             |                     | 166             | 496             |  |  |
|                                       | EBR2 (O)  | 90                      | 71.7                     | E                       |                          |                         |                              |                             |                     | 166             | 496             |  |  |
|                                       | NBIT      | 2026                    | 30.1                     | C                       | 30.1                     | C                       |                              |                             |                     | 580             | 122             |  |  |
|                                       | NBOT      | 965                     | 14.1                     | B                       | 14.5                     | B                       |                              |                             |                     | 580             | 38              |  |  |
|                                       | NBOR      | 142                     | 17.2                     | B                       | 12.7                     | B                       |                              |                             |                     | 580             | 38              |  |  |
|                                       | SBIL      | 178                     | 40.5                     | D                       |                          |                         |                              |                             |                     | 78              | 264             |  |  |
|                                       | SBIT      | 2240                    | 10.5                     | B                       |                          |                         |                              |                             |                     | 78              | 264             |  |  |
|                                       | SBOT      | 1806                    | 11.3                     | B                       |                          |                         |                              |                             |                     | 56              | 358             |  |  |
| Roosevelt Blvd & Front St             | WBL1 (I)  | 41                      | 0.8                      | A                       | 15.3                     | B                       | 11.6                         | B                           |                     | 61              | 124             |  |  |
|                                       | WBL2 (O)  | 64                      | 2.2                      | A                       |                          |                         |                              |                             |                     | 61              | 124             |  |  |
|                                       | WBT       | 559                     | 16.4                     | B                       |                          |                         |                              |                             |                     | 61              | 124             |  |  |
|                                       | WBR1 (I)  | 29                      | 40.6                     | D                       |                          |                         |                              |                             |                     | 59              | 306             |  |  |
|                                       | WBR2 (O)  | 3                       | 37.9                     | D                       |                          |                         |                              |                             |                     | 59              | 306             |  |  |
|                                       | NBIL      | 244                     | 81.5                     | F                       | 25.2                     | C                       |                              |                             |                     | 380             | 49              |  |  |
|                                       | NBIT      | 1900                    | 17.9                     | B                       | 7.9                      | A                       |                              |                             |                     | 475             | 61              |  |  |
|                                       | NBOT      | 1092                    | 7.9                      | A                       |                          |                         |                              |                             |                     | 475             | 31              |  |  |
|                                       | SBIT      | 2322                    | 3.4                      | A                       |                          |                         |                              |                             |                     | 315             | 11              |  |  |
|                                       | SBOT      | 1822                    | 7.1                      | A                       |                          |                         |                              |                             |                     | 350             | 38              |  |  |
|                                       | SBOR      | 95                      | 4.8                      | A                       |                          |                         |                              |                             |                     | 350             | 38              |  |  |
| Roosevelt Blvd & Rising Sun Ave       | EBL1 (I)  | 43                      | 6.3                      | A                       | 44.1                     | D                       | 14.7                         | B                           |                     | 29              | 200             |  |  |
|                                       | EBL2 (O)  | 8                       | 8.5                      | A                       |                          |                         |                              |                             |                     | 29              | 200             |  |  |
|                                       | EBT       | 269                     | 48.2                     | D                       |                          |                         |                              |                             |                     | 122             | 525             |  |  |
|                                       | EBR1 (I)  | 83                      | 48.3                     | D                       |                          |                         |                              |                             |                     | 122             | 525             |  |  |
|                                       | EBR2 (O)  | 121                     | 47.7                     | D                       |                          |                         |                              |                             |                     | 122             | 525             |  |  |
|                                       | WBL1 (I)  | 0                       | 0.0                      | A                       | 19.3                     | B                       |                              |                             |                     | 60              | 5               |  |  |
|                                       | WBL2 (O)  | 105                     | 19.5                     | B                       |                          |                         |                              |                             |                     | 60              | 5               |  |  |
|                                       | WBT       | 330                     | 18.8                     | B                       |                          |                         |                              |                             |                     | 60              | 94              |  |  |
|                                       | WBR1 (I)  | 28                      | 22.3                     | C                       |                          |                         |                              |                             |                     | 60              | 94              |  |  |
|                                       | WBR2 (O)  | 33                      | 21.2                     | C                       |                          |                         |                              |                             |                     | 60              | 94              |  |  |
|                                       | NBIL      | N/A                     | N/A                      | N/A                     | 11.0                     | B                       |                              |                             |                     | N/A             | N/A             |  |  |
|                                       | NBIT      | 1931                    | 11.0                     | B                       | 9.4                      | A                       |                              |                             |                     | 245             | 45              |  |  |
|                                       | NBOT      | 1092                    | 9.4                      | A                       |                          |                         |                              |                             |                     | 230             | 39              |  |  |
|                                       | SBIL      | 229                     | 24.9                     | C                       |                          |                         |                              |                             |                     | 250             | 33              |  |  |
|                                       | SBIT      | 2238                    | 8.4                      | A                       |                          |                         |                              |                             |                     | 450             | 33              |  |  |
|                                       | SBOT      | 1692                    | 17.1                     | B                       |                          |                         |                              |                             |                     | 550             | 104             |  |  |
|                                       | SBOR      | 150                     | 30.9                     | C                       | 18.2                     | B                       |                              |                             |                     | 550             | 104             |  |  |
| Roosevelt Blvd & B St Michigan U-Turn | WBR       | 1                       | 0.4                      | A                       | 0.4                      | A                       | 6.0                          | A                           |                     | 0               | 14              |  |  |
|                                       | NBIU1 (I) | 61                      | 38.5                     | D                       | 6.3                      | A                       |                              |                             |                     | 275             | 59              |  |  |
|                                       | NBIU2 (O) | 189                     | 41.1                     | D                       |                          |                         |                              |                             |                     | 275             | 59              |  |  |
|                                       | NBT       | 1747                    | 1.4                      | A                       |                          |                         |                              |                             |                     | 620             | 1               |  |  |
|                                       | NBOT      | 1136                    | 2.6                      | A                       | 2.6                      | A                       |                              |                             |                     | 620             | 3               |  |  |
|                                       | NBOR      | 0                       | 0.1                      | A                       | 1.9                      | A                       |                              |                             |                     | 620             | 3               |  |  |
|                                       | SBIT      | 2406                    | 1.9                      | A                       |                          |                         |                              |                             |                     | 450             | 2               |  |  |
|                                       | SBOT      | 1660                    | 13.9                     | B                       |                          |                         |                              |                             |                     | 450             | 79              |  |  |
|                                       | SBOR      |                         |                          |                         |                          |                         |                              |                             |                     |                 | 557             |  |  |

## 2025 Build AM (Screen 6.2)

| Intersection                                       | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|--|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & C Street                          | EBL1 (I)  | 59                      | 12.9                     | B                       | 48.2                     | D                       | 30.3                         | C                           |                     | 27              | 187             |  |  |
|  | EBL2 (O)  | 31                      | 14.7                     | B                       |                          |                         |                              |                             |                     | 27              | 187             |  |  |
|  | EBT       | 334                     | 54.7                     | D                       |                          |                         |                              |                             |                     | 93              | 442             |  |  |
|  | EBR1 (I)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 93              | 442             |  |  |
|  | EBR2 (O)  | 123                     | 56.2                     | E                       |                          |                         |                              |                             |                     | 93              | 442             |  |  |
|  | WBL1 (I)  | 10                      | 3.4                      | A                       | 61.6                     | E                       |                              |                             |                     | 3               | 69              |  |  |
|  | WBL2 (O)  | 84                      | 9.9                      | A                       |                          |                         |                              |                             |                     | 3               | 69              |  |  |
|  | WBT       | 348                     | 74.4                     | E                       |                          |                         |                              |                             |                     | 157             | 568             |  |  |
|  | WBR1 (I)  | 27                      | 77.4                     | E                       |                          |                         |                              |                             |                     | 157             | 568             |  |  |
|  | WBR2 (O)  | 3                       | 75.4                     | E                       |                          |                         |                              |                             |                     | 157             | 568             |  |  |
|  | NBIL      | 8                       | 47.2                     | D                       | 46.1                     | D                       |                              |                             |                     | 640             | 167             |  |  |
|  | NBIT      | 1739                    | 46.1                     | D                       |                          | 640                     |                              |                             | 167                 |                 |                 |  |  |
|  | NBOT      | 1106                    | 44.8                     | D                       |                          | 640                     |                              |                             | 145                 |                 |                 |  |  |
|  | NBOR      | 31                      | 10.8                     | B                       |                          | 640                     |                              |                             | 145                 |                 |                 |  |  |
|  | SBIL      | 179                     | 21.2                     | C                       |                          | 255                     |                              |                             | 36                  |                 |                 |  |  |
|  | SBIT      | 2350                    | 9.2                      | A                       |                          | 775                     |                              |                             | 36                  |                 |                 |  |  |
|  | SBOT      | 1512                    | 20.4                     | C                       |                          | 785                     |                              |                             | 110                 |                 |                 |  |  |
|  | SBOR      | 122                     | 17.8                     | B                       |                          | 785                     |                              |                             | 110                 |                 |                 |  |  |
| Roosevelt Blvd & Rorer St - D St                   | WBR       | 46                      | 1.3                      | A                       | 1.3                      | A                       | 4.2                          | A                           |                     | 0               | 32              |  |  |
|  | NBIT      | 1825                    | 2.8                      | A                       | 2.8                      | A                       |                              |                             |                     | 680             | 3               |  |  |
|  | NBOT      | 1168                    | 3.1                      | A                       | 3.1                      | A                       |                              |                             |                     | 680             | 7               |  |  |
|  | NBOR      | 1                       | 6.4                      | A                       |                          | 680                     |                              |                             | 7                   |                 |                 |  |  |
|  | SBIT      | 2538                    | 4.3                      | A                       | 4.3                      | A                       |                              |                             |                     | 1150            | 3               |  |  |
|  | SBOT      | 1563                    | 6.5                      | A                       | 6.5                      | A                       |                              |                             |                     | 1160            | 41              |  |  |
| Roosevelt Blvd & F Street                          | EBL1 (I)  | 44                      | 27.3                     | C                       | 93.1                     | F                       | 26.2                         | C                           |                     | 52              | 196             |  |  |
|  | EBL2 (O)  | 14                      | 5.7                      | A                       |                          |                         |                              |                             |                     | 52              | 196             |  |  |
|  | EBL3      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 52              | 196             |  |  |
|  | EBT       | 338                     | 101.6                    | F                       |                          |                         |                              |                             |                     | 259             | 765             |  |  |
|  | EBR1 (I)  | 11                      | 105.5                    | F                       |                          |                         |                              |                             |                     | 259             | 765             |  |  |
|  | EBR2 (O)  | 149                     | 100.5                    | F                       |                          |                         |                              |                             |                     | 259             | 765             |  |  |
|  | WBL1 (I)  | 1                       | 1.2                      | A                       | 41.6                     | D                       |                              |                             |                     | 51              | 184             |  |  |
|  | WBL2 (O)  | 107                     | 5.8                      | A                       |                          |                         |                              |                             |                     | 51              | 184             |  |  |
|  | WBT       | 378                     | 51.8                     | D                       |                          |                         |                              |                             |                     | 105             | 419             |  |  |
|  | WBR1 (I)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 105             | 419             |  |  |
|  | WBR2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 105             | 419             |  |  |
|  | NBIL      | 134                     | 40.5                     | D                       |                          |                         |                              |                             |                     | 170             | 142             |  |  |
|  | NBIT      | 1755                    | 40.5                     | D                       |                          |                         |                              |                             |                     | 1275            | 142             |  |  |
|  | NBOT      | 1106                    | 0.6                      | A                       |                          |                         |                              |                             |                     | 1275            | 97              |  |  |
|  | NBOBR     | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 1275            | 93              |  |  |
|  | NBOR      | 30                      | 22.6                     | C                       |                          |                         |                              |                             |                     | 1275            | 93              |  |  |
|  | SBIL      | 170                     | 31.4                     | C                       |                          |                         |                              |                             |                     | 1050            | 391             |  |  |
|  | SBIT      | 2526                    | 15.5                     | B                       |                          |                         |                              |                             |                     | 1050            | 391             |  |  |
|  | SBOT      | 1497                    | 15.1                     | B                       |                          |                         |                              |                             |                     | 1000            | 69              |  |  |
|  | SBOR      | 51                      | 11.8                     | B                       |                          |                         |                              |                             |                     | 1000            | 69              |  |  |
| Roosevelt Blvd & Whitaker Ave (South) - Garland St | EBR       | 0                       | 0.0                      | A                       | 0.0                      | A                       | 13.4                         | B                           |                     | 0               | 0               |  |  |
|  | WBR1 (I)  | 201                     | 49.9                     | D                       | 51.2                     | D                       |                              |                             |                     | 111             | 425             |  |  |
|  | WBR2 (O)  | 197                     | 52.6                     | D                       |                          |                         |                              |                             |                     | 111             | 425             |  |  |
|  | NBIT      | 1790                    | 15.6                     | B                       |                          |                         |                              |                             |                     | 1080            | 44              |  |  |
|  | NBOT      | 1122                    | 13.9                     | B                       | 43.2                     | B                       |                              |                             |                     | 1080            | 34              |  |  |
|  | NBOR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 1080            | 34              |  |  |
|  | SBU1 (I)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 92              | 352             |  |  |
|  | SBU2 (O)  | 3                       | 40.0                     | D                       |                          |                         |                              |                             |                     | 92              | 352             |  |  |
|  | SBL       | 697                     | 43.2                     | D                       |                          |                         |                              |                             |                     | 320             | 92              |  |  |
|  | SBIT      | 2665                    | 2.8                      | A                       | 2.8                      | A                       |                              |                             |                     | 450             | 18              |  |  |
|  | SBOT      | 1554                    | 5.7                      | A                       | 5.7                      | A                       |                              |                             |                     | 470             | 14              |  |  |
|  | SBOR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 470             | 14              |  |  |
| Roosevelt Blvd & Whitaker Ave (North) - Adams Ave  | EBL1 (I)  | 143                     | 0.3                      | A                       | 11.2                     | B                       | 24.2                         | C                           |                     | 0               | 0               |  |  |
|  | EBL2 (O)  | 390                     | 0.9                      | A                       |                          |                         |                              |                             |                     | 0               | 0               |  |  |
|  | EBR1 (I)  | 288                     | 30.7                     | C                       |                          |                         |                              |                             |                     | 69              | 239             |  |  |
|  | EBR2 (O)  | 4                       | 3.3                      | A                       | 32.7                     | C                       |                              |                             |                     | 69              | 239             |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 58              | 242             |  |  |
|  | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 58              | 242             |  |  |
|  | NBIL      | 319                     | 19.9                     | B                       |                          |                         |                              |                             |                     | 245             | 58              |  |  |
|  | NBIT      | 1669                    | 35.1                     | D                       |                          |                         |                              |                             |                     | 265             | 197             |  |  |
|  | NBOT      | 1315                    | 36.5                     | D                       | 36.5                     | D                       |                              |                             |                     | 290             | 174             |  |  |
|  | SBIT      | 3074                    | 16.5                     | B                       | 16.5                     | B                       |                              |                             |                     | 780             | 92              |  |  |
|  | SBOT      | 1489                    | 26.8                     | C                       | 24.8                     | C                       |                              |                             |                     | 800             | 114             |  |  |
|  | SBOR      | 374                     | 17.0                     | B                       |                          |                         |                              |                             |                     | 800             | 114             |  |  |

## 2025 Build AM (Screen 6.2)

| Intersection                                | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |
|---|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|
| Roosevelt BLvd & Tower Blvd                 | EBR       | 43                      | 12.5                     | B                       | 12.5                     | B                       | 4.9                          | A                           |                     | 1               | 49              |
|   | NBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 9               | 113             |
|   | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 9               | 113             |
|   | NBIL      | 162                     | 31.7                     | C                       |                          |                         |                              |                             | 320                 | 13              | 114             |
|   | NBIT      | 1650                    | 5.7                      | A                       |                          |                         |                              |                             | 950                 | 9               | 192             |
|   | NBOT      | 1682                    | 5.1                      | A                       | 5.1                      | A                       |                              |                             | 9500                | 9               | 207             |
|   | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 200                 | 19              | 188             |
|   | SBIU1 (O) | 145                     | 26.3                     | C                       |                          |                         |                              |                             | 200                 | 19              | 188             |
|   | SBIT      | 3078                    | 1.8                      | A                       |                          |                         |                              |                             | 580                 | 8               | 171             |
|   | SBOT      | 1834                    | 4.8                      | A                       |                          |                         |                              |                             | 580                 | 16              | 210             |
| Roosevelt Blvd & Langdon St                 | SBOR      | 47                      | 4.1                      | A                       |                          |                         | 14.7                         | B                           |                     | 580             | 15              |
|   | EBL1 (I)  | 116                     | 0.5                      | A                       |                          |                         |                              |                             |                     | 0               | 112             |
|   | EBL2 (O)  | 232                     | 1.9                      | A                       |                          |                         |                              |                             |                     | 1               | 79              |
|   | EBT       | 347                     | 47.2                     | D                       |                          |                         |                              |                             | 200                 | 72              | 315             |
|   | EBR1 (I)  | 69                      | 48.2                     | D                       |                          |                         |                              |                             |                     | 72              | 315             |
|   | EBR2 (O)  | 28                      | 46.7                     | D                       |                          |                         |                              |                             |                     | 72              | 315             |
|   | WBL1 (I)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 0               | 0               |
|   | WBL2 (O)  | 5                       | 7.0                      | A                       |                          |                         |                              |                             |                     | 0               | 26              |
|   | WBT       | 9                       | 40.8                     | D                       |                          |                         |                              |                             | 200                 | 18              | 133             |
|   | WBR1 (I)  | 65                      | 41.9                     | D                       |                          |                         |                              |                             |                     | 18              | 133             |
|   | WBR2 (O)  | 11                      | 39.4                     | D                       |                          |                         |                              |                             |                     | 18              | 133             |
|   | NBLU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 3               | 34              |
|   | NBLU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 3               | 34              |
|   | NBIL      | 6                       | 100.7                    | F                       |                          |                         |                              |                             | 190                 | 3               | 34              |
|   | NBIT      | 1666                    | 15.9                     | B                       |                          |                         |                              |                             | 580                 | 53              | 342             |
|   | NBOT      | 1742                    | 20.7                     | C                       |                          |                         |                              |                             | 600                 | 121             | 618             |
|   | NBOR      | 79                      | 31.6                     | C                       |                          |                         |                              |                             | 600                 | 121             | 618             |
|   | SBIL      | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |
|   | SBIT      | 3154                    | 7.8                      | A                       |                          |                         |                              |                             | 400                 | 47              | 354             |
|   | SBOT      | 1859                    | 12.5                     | B                       |                          |                         |                              |                             | 415                 | 56              | 462             |
|   | SBOR      | 258                     | 13.1                     | B                       |                          |                         |                              |                             | 415                 | 56              | 462             |
| Roosevelt Blvd & Summerdale Ave - Adams Ave | EBL1 (I)  | 5                       | 1.7                      | A                       |                          |                         | 40.6                         | D                           |                     | 2               | 159             |
|   | EBL2 (O)  | 1                       | 2.5                      | A                       |                          |                         |                              |                             |                     | 2               | 159             |
|   | EBT       | 312                     | 83.2                     | F                       |                          |                         |                              |                             | 1700                | 260             | 972             |
|   | EBR1 (I)  | 398                     | 83.3                     | F                       |                          |                         |                              |                             | 300                 | 260             | 972             |
|   | EBR2 (O)  | 112                     | 55.5                     | E                       |                          |                         |                              |                             | 300                 | 260             | 972             |
|   | WBL1 (I)  | 321                     | 1.5                      | A                       |                          |                         |                              |                             | 730                 | 0               | 42              |
|   | WBL2 (O)  | 222                     | 2.8                      | A                       |                          |                         |                              |                             | 730                 | 0               | 42              |
|   | WBT       | 127                     | 183.1                    | F                       |                          |                         |                              |                             | 120                 | 92              | 514             |
|   | WBR1 (I)  | 49                      | 123.3                    | F                       |                          |                         |                              |                             | 730                 | 542             | 846             |
|   | WBR2 (O)  | 12                      | 119.1                    | F                       |                          |                         |                              |                             | 730                 | 542             | 846             |
|   | NBIL      | 313                     | 76.1                     | E                       |                          |                         |                              |                             | 315                 | 73              | 251             |
|   | NBIT      | 1526                    | 19.9                     | B                       |                          |                         |                              |                             | 450                 | 60              | 426             |
|   | NBOT      | 1262                    | 20.4                     | C                       |                          |                         |                              |                             | 450                 | 96              | 543             |
|   | NBOR      | 717                     | 18.0                     | B                       |                          |                         |                              |                             | 450                 | 7               | 427             |
|   | SBIL      | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |
|   | SBIT      | 2435                    | 58.1                     | E                       |                          |                         |                              |                             | 950                 | 384             | 978             |
|   | SBOT      | 1790                    | 32.5                     | C                       |                          |                         |                              |                             | 950                 | 147             | 583             |
|   | SBOR      | 2                       | 0.3                      | A                       |                          |                         |                              |                             | 950                 | 21              | 203             |
| Roosevelt Blvd & Pratt Street               | EBL1 (I)  | 0                       | 0.0                      | A                       |                          |                         | 9.5                          | A                           |                     | 0               | 5               |
|   | EBL2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 0               | 5               |
|   | EBT       | 108                     | 46.4                     | D                       |                          |                         |                              |                             |                     | 63              | 313             |
|   | EBR1 (I)  | 123                     | 47.4                     | D                       |                          |                         |                              |                             |                     | 63              | 313             |
|   | EBR2 (O)  | 29                      | 46.7                     | D                       |                          |                         |                              |                             |                     | 63              | 313             |
|   | WBL1 (I)  | 92                      | 1.4                      | A                       |                          |                         |                              |                             |                     | 4               | 123             |
|   | WBL2 (O)  | 67                      | 4.1                      | A                       |                          |                         |                              |                             |                     | 4               | 123             |
|   | WBT       | 263                     | 46.0                     | D                       |                          |                         |                              |                             |                     | 76              | 348             |
|   | WBR1 (I)  | 9                       | 61.5                     | E                       |                          |                         |                              |                             |                     | 76              | 348             |
|   | WBR2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 76              | 348             |
|   | NBIL      | 13                      | 14.7                     | B                       |                          |                         |                              |                             |                     | 140             | 4               |
|   | NBIT      | 1591                    | 2.7                      | A                       |                          |                         |                              |                             |                     | 1140            | 4               |
|   | NBOT      | 1057                    | 11.8                     | B                       |                          |                         |                              |                             |                     | 1140            | 35              |
|   | NBOR      | 340                     | 14.7                     | B                       |                          |                         |                              |                             |                     | 1140            | 35              |
|   | SBIL      | 0                       | 0.3                      | A                       |                          |                         |                              |                             |                     | 500             | 22              |
|   | SBIT      | 2298                    | 4.9                      | A                       |                          |                         |                              |                             |                     | 500             | 22              |
|   | SBOT      | 1584                    | 8.6                      | A                       |                          |                         |                              |                             |                     | 500             | 29              |
|   | SBOR      | 7                       | 22.3                     | C                       |                          |                         |                              |                             |                     | 500             | 29              |

## 2025 Build AM (Screen 6.2)

| Intersection                                       | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|--|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Bridge Street                     | EBL1 (I) | 0                       | 0.0                      | A                       | 57.7                     | E                       | 20.3                         | C                           |                     | 34              | 129             |  |  |
|  | EBL2 (O) | 0                       | 13.3                     | B                       |                          |                         |                              |                             |                     | 34              | 129             |  |  |
|  | EBT      | 144                     | 57.5                     | E                       |                          |                         |                              |                             |                     | 103             | 405             |  |  |
|  | EBR1 (I) | 35                      | 65.2                     | E                       |                          |                         |                              |                             |                     | 103             | 405             |  |  |
|  | EBR2 (O) | 139                     | 56.1                     | E                       |                          |                         |                              |                             |                     | 103             | 405             |  |  |
|  | WBL1 (I) | 13                      | 29.0                     | C                       | 38.9                     | D                       |                              |                             |                     | 9               | 134             |  |  |
|  | WBL2 (O) | 24                      | 11.3                     | B                       |                          |                         |                              |                             |                     | 9               | 134             |  |  |
|  | WBT      | 158                     | 43.9                     | D                       |                          |                         |                              |                             |                     | 44              | 247             |  |  |
|  | WBR1 (I) | 0                       | 7.9                      | A                       | 9.8                      | A                       |                              |                             |                     | 44              | 247             |  |  |
|  | WBR2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 44              | 247             |  |  |
|  | NBIL     | 29                      | 17.0                     | B                       |                          |                         |                              |                             |                     | 510             | 26              |  |  |
|  | NBIT     | 1570                    | 9.7                      | A                       |                          |                         |                              |                             |                     | 510             | 26              |  |  |
|  | NBOT     | 955                     | 11.8                     | B                       |                          |                         |                              |                             |                     | 36              | 185             |  |  |
|  | NBOR     | 102                     | 13.9                     | B                       |                          |                         |                              |                             |                     | 36              | 185             |  |  |
|  | SBIL     | 133                     | 146.7                    | F                       |                          |                         |                              |                             |                     | 200             | 957             |  |  |
|  | SBIT     | 2266                    | 25.3                     | C                       |                          |                         |                              |                             |                     | 200             | 957             |  |  |
|  | SBOT     | 1432                    | 8.4                      | A                       |                          |                         |                              |                             |                     | 22              | 246             |  |  |
|  | SBOR     | 65                      | 4.5                      | A                       |                          |                         |                              |                             |                     | 22              | 246             |  |  |
| Roosevelt Blvd & Sanger St Ped                     | NBOT     | 477                     | 4.7                      | A                       | 4.7                      | A                       | 2.2                          | A                           |                     | 19              | 174             |  |  |
|  | SBOT     | 1499                    | 1.4                      | A                       | 1.4                      | A                       |                              |                             |                     | 3               | 117             |  |  |
|  | SBOR     | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 3               | 117             |  |  |
| Roosevelt Blvd NB & Oxford Circle & Oxford Ave     | EBL      | 141                     | 2.5                      | A                       | 9.8                      | A                       | 25.8                         | C                           |                     | 31              | 230             |  |  |
|  | EBT      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 31              | 230             |  |  |
|  | EWT      | 572                     | 11.7                     | B                       |                          |                         |                              |                             |                     | 31              | 230             |  |  |
|  | WBR      | 238                     | 25.1                     | C                       | 25.1                     | C                       |                              |                             |                     | 50              | 456             |  |  |
|  | NBOT     | 994                     | 16.4                     | B                       | 19.9                     | B                       |                              |                             |                     | 57              | 163             |  |  |
|  | NBOR     | 119                     | 48.6                     | D                       |                          |                         |                              |                             |                     | 57              | 163             |  |  |
| Roosevelt Blvd NB & Oxford Circle & Cheltenham Ave | NBOHR    | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 57              | 163             |  |  |
|  | WBR      | 142                     | 206.4                    | F                       | 206.4                    | F                       | 25.8                         | C                           |                     | 133             | 247             |  |  |
|  | NBOL     | 224                     | 6.5                      | A                       | 5.9                      | A                       |                              |                             |                     | 13              | 156             |  |  |
|  | NBOT     | 910                     | 5.8                      | A                       |                          |                         |                              |                             |                     | 12              | 150             |  |  |
|  | NBT      | 236                     | 49.6                     | D                       |                          |                         |                              |                             |                     | 38              | 215             |  |  |
|  | NBR      | 235                     | 19.0                     | B                       |                          |                         |                              |                             |                     | 143             | 344             |  |  |
| Roosevelt Blvd SB & Oxford Circle                  | SBOL     | 91                      | 4.7                      | A                       | 3.5                      | A                       | 25.8                         | C                           |                     | 8               | 92              |  |  |
|  | SBOT     | 1132                    | 3.4                      | A                       |                          |                         |                              |                             |                     | 9               | 85              |  |  |
|  | SBT      | 727                     | 67.7                     | E                       |                          |                         |                              |                             |                     | 301             | 697             |  |  |
|  | SBR      | 370                     | 36.1                     | D                       | 57.1                     | E                       |                              |                             |                     | 343             | 744             |  |  |
| Roosevelt Blvd SB & Oxford Circle & Castor Ave     | EBS      | 648                     | 55.5                     | E                       | 55.5                     | E                       |                              |                             |                     | 193             | 614             |  |  |
|  | WBL      | 110                     | 1.0                      | A                       | 20.2                     | C                       |                              |                             |                     | 30              | 271             |  |  |
|  | WBT      | 176                     | 27.1                     | C                       |                          |                         |                              |                             |                     | 30              | 271             |  |  |
|  | WBR      | 313                     | 23.1                     | C                       |                          |                         |                              |                             |                     | 24              | 158             |  |  |
|  | SBOT     | 1114                    | 16.4                     | B                       |                          |                         |                              |                             |                     | 425             | 61              |  |  |
|  | SBOR     | 158                     | 18.2                     | B                       | 16.6                     | B                       |                              |                             |                     | 425             | 63              |  |  |
|  | SBOHR    | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 425             | 61              |  |  |
| Roosevelt Blvd & Large Street                      | EBS1 (I) | 0                       | 0.0                      | A                       | 57.4                     | E                       | 17.7                         | B                           |                     | 17              | 176             |  |  |
|  | EBS2 (O) | 1                       | 1.1                      | A                       |                          |                         |                              |                             |                     | 17              | 174             |  |  |
|  | EBT      | 232                     | 56.3                     | E                       |                          |                         |                              |                             |                     | 153             | 527             |  |  |
|  | EBS1 (I) | 144                     | 61.5                     | E                       |                          |                         |                              |                             |                     | 153             | 527             |  |  |
|  | EBS2 (O) | 126                     | 55.0                     | E                       |                          |                         |                              |                             |                     | 153             | 527             |  |  |
|  | WBL1 (I) | 45                      | 4.0                      | A                       | 22.3                     | C                       |                              |                             |                     | 12              | 111             |  |  |
|  | WBL2 (O) | 3                       | 5.4                      | A                       |                          |                         |                              |                             |                     | 12              | 111             |  |  |
|  | WBT      | 186                     | 29.4                     | C                       |                          |                         |                              |                             |                     | 65              | 240             |  |  |
|  | WBR1 (I) | 0                       | 8.2                      | A                       |                          |                         |                              |                             |                     | 65              | 240             |  |  |
|  | WBR2 (O) | 68                      | 15.6                     | B                       |                          |                         |                              |                             |                     | 65              | 240             |  |  |
|  | NBIL     | 92                      | 9.1                      | A                       | 9.6                      | A                       |                              |                             |                     | 12              | 157             |  |  |
|  | NBIT     | 1474                    | 9.6                      | A                       |                          |                         |                              |                             |                     | 12              | 157             |  |  |
|  | NBOT     | 1131                    | 21.3                     | C                       |                          |                         |                              |                             |                     | 63              | 395             |  |  |
|  | SBIL     | 123                     | 14.0                     | B                       | 16.4                     | B                       |                              |                             |                     | 69              | 429             |  |  |
|  | SBIT     | 2293                    | 16.5                     | B                       |                          |                         |                              |                             |                     | 69              | 429             |  |  |
|  | SBOT     | 1151                    | 10.3                     | B                       |                          |                         |                              |                             |                     | 30              | 209             |  |  |
|  | SBOR     | 54                      | 4.6                      | A                       | 10.0                     | A                       |                              |                             |                     | 19              | 202             |  |  |

## 2025 Build AM (Screen 6.2)

| Intersection                      | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|-----------------------------------|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Devereaux Street | EBL1 (I) | 219                     | 9.9                      | A                       | 34.5                     | C                       | 21.4                         | C                           |                     | 7               | 148             |  |  |
|                                   | EBL2 (O) | 35                      | 3.2                      | A                       |                          |                         |                              |                             |                     | 7               | 148             |  |  |
|                                   | EBT      | 504                     | 45.9                     | D                       |                          |                         |                              |                             |                     | 84              | 445             |  |  |
|                                   | EBR1 (I) | 74                      | 44.2                     | D                       |                          |                         |                              |                             |                     | 83              | 446             |  |  |
|                                   | EBR2 (O) | 1                       | 21.6                     | C                       |                          |                         |                              |                             |                     | 82              | 445             |  |  |
|                                   | WBL1 (I) | 145                     | 12.4                     | B                       | 41.4                     | D                       |                              |                             | 570                 | 4               | 102             |  |  |
|                                   | WBL2 (O) | 35                      | 12.3                     | B                       |                          |                         |                              |                             | 570                 | 4               | 102             |  |  |
|                                   | WBT      | 445                     | 53.2                     | D                       |                          |                         |                              |                             | 570                 | 91              | 354             |  |  |
|                                   | WBR1 (I) | 1                       | 29.8                     | C                       |                          |                         |                              |                             | 570                 | 91              | 354             |  |  |
|                                   | WBR2 (O) | 0                       | 0.0                      | A                       | 29.7                     | C                       |                              |                             | 81                  | 417             |                 |  |  |
|                                   | NBIL     | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 82                  | 417             |                 |  |  |
|                                   | NBIT     | 1473                    | 29.7                     | C                       |                          |                         |                              |                             | 74                  | 406             |                 |  |  |
|                                   | NBOT     | 1192                    | 28.4                     | C                       |                          |                         |                              |                             | 74                  | 406             |                 |  |  |
|                                   | NBOR     | 6                       | 35.9                     | D                       | 28.4                     | C                       |                              |                             | 21                  | 196             |                 |  |  |
|                                   | SBIL     | 29                      | 22.3                     | C                       |                          |                         |                              |                             | 21                  | 196             |                 |  |  |
|                                   | SBIT     | 2217                    | 8.0                      | A                       |                          |                         |                              |                             | 33                  | 227             |                 |  |  |
|                                   | SBOT     | 1199                    | 10.1                     | B                       |                          |                         |                              |                             | 32                  | 229             |                 |  |  |
|                                   | SBOR     | 118                     | 11.3                     | B                       | 10.2                     | B                       |                              |                             | N/A                 | N/A             |                 |  |  |
|                                   | SBOHR    | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             | N/A                 | N/A             |                 |  |  |
|                                   | SEBR     | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             | N/A                 | N/A             |                 |  |  |
|                                   | EBL1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 17                  | 162             |                 |  |  |
| Roosevelt Blvd & Bustleton Ave    | EBL2 (O) | 9                       | 20.2                     | C                       | 6.1                      | A                       | 13.2                         | B                           |                     | 18              | 161             |  |  |
|                                   | EBT      | 452                     | 4.2                      | A                       |                          |                         |                              |                             | 21                  | 158             |                 |  |  |
|                                   | EBR1 (I) | 247                     | 9.1                      | A                       |                          |                         |                              |                             | 21                  | 158             |                 |  |  |
|                                   | EBR2 (O) | 55                      | 6.1                      | A                       |                          |                         |                              |                             | 21                  | 158             |                 |  |  |
|                                   | WBL1 (I) | 28                      | 44.5                     | D                       | 9.0                      | A                       |                              |                             | 65                  | 42              | 213             |  |  |
|                                   | WBL2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 65                  | 42              | 213             |  |  |
|                                   | WBT      | 216                     | 6.0                      | A                       |                          |                         |                              |                             | 7                   | 97              |                 |  |  |
|                                   | WBR1 (I) | 34                      | 7.0                      | A                       |                          |                         |                              |                             | 7                   | 97              |                 |  |  |
|                                   | WBR2 (O) | 86                      | 6.0                      | A                       | 26.7                     | C                       |                              |                             | 200                 | 89              | 285             |  |  |
|                                   | NBIL     | 260                     | 70.6                     | E                       |                          |                         |                              |                             | 89                  | 285             |                 |  |  |
|                                   | NBIT     | 1232                    | 17.4                     | B                       |                          |                         |                              |                             | 35                  | 496             |                 |  |  |
|                                   | NBOT     | 804                     | 10.7                     | B                       |                          |                         |                              |                             | 70                  | 266             |                 |  |  |
|                                   | SBIL     | 197                     | 16.4                     | B                       | 13.8                     | B                       |                              |                             | 65                  | 253             |                 |  |  |
|                                   | SBIT     | 1974                    | 13.6                     | B                       |                          |                         |                              |                             | 6                   | 85              |                 |  |  |
|                                   | SBOT     | 1199                    | 2.7                      | A                       |                          |                         |                              |                             |                     |                 |                 |  |  |
| Bustleton Ave & Robbins Street    | EBL      | 75                      | 1.4                      | A                       | 0.7                      | A                       | 22.2                         | C                           |                     | 1               | 69              |  |  |
|                                   | EBT      | 563                     | 0.7                      | A                       |                          |                         |                              |                             |                     | 1               | 69              |  |  |
|                                   | WBT      | 337                     | 38.9                     | D                       |                          |                         |                              |                             |                     | 50              | 257             |  |  |
|                                   | WBR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 50              | 257             |  |  |
|                                   | NBL      | N/A                     | N/A                      | N/A                     | 35.5                     | D                       |                              |                             |                     | N/A             | N/A             |  |  |
|                                   | NBT      | 502                     | 33.9                     | C                       |                          |                         |                              |                             |                     | 96              | 505             |  |  |
| Bustleton Ave & Levick Street     | NBR      | 102                     | 43.3                     | D                       |                          |                         |                              |                             |                     | 96              | 505             |  |  |
|                                   | EBT      | 754                     | 41.1                     | D                       | 41.2                     | D                       | 18.4                         | B                           |                     | 118             | 507             |  |  |
|                                   | EBC      | 8                       | 49.0                     | D                       |                          |                         |                              |                             |                     | 118             | 507             |  |  |
|                                   | WBL      | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |  |  |
|                                   | WBT      | 447                     | 0.3                      | A                       | 0.3                      | A                       |                              |                             |                     | 0               | 23              |  |  |
|                                   | SBL      | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |  |  |
|                                   | SBT      | 548                     | 3.1                      | A                       |                          |                         |                              |                             |                     | 16              | 75              |  |  |
|                                   | SBR      | 70                      | 5.4                      | A                       |                          |                         |                              |                             |                     | 16              | 75              |  |  |
| Roosevelt Blvd & Levick St        | WBL1 (I) | 643                     | 34.3                     | C                       | 34.2                     | C                       | 15.9                         | B                           |                     | 85              | 412             |  |  |
|                                   | WBL2 (O) | 550                     | 34.0                     | C                       |                          |                         |                              |                             |                     | 77              | 398             |  |  |
|                                   | WBR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 79              | 405             |  |  |
|                                   | NBIT     | 1265                    | 5.4                      | A                       |                          |                         |                              |                             |                     | 16              | 101             |  |  |
|                                   | NBOT     | 897                     | 9.1                      | A                       | 9.1                      | A                       |                              |                             |                     | 26              | 168             |  |  |
|                                   | SBIT     | 1528                    | 16.8                     | B                       |                          |                         |                              |                             |                     | 54              | 354             |  |  |
|                                   | SBOT     | 1265                    | 12.7                     | B                       |                          |                         |                              |                             |                     | 38              | 242             |  |  |

## 2025 Build AM (Screen 6.2)

| Intersection                       | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|------------------------------------|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Haribson Ave      | EBL1 (I) | 60                      | 7.7                      | A                       | 37.6                     | D                       | 20.8                         | C                           |                     | 1               | 76              |  |  |
|                                    | EBL2 (O) | 25                      | 6.7                      | A                       |                          |                         |                              |                             |                     | 1               | 76              |  |  |
|                                    | EBT      | 591                     | 41.8                     | D                       |                          |                         |                              |                             |                     | 76              | 300             |  |  |
|                                    | EBR1 (I) | 17                      | 39.8                     | D                       | 23.9                     | C                       |                              |                             |                     | 76              | 300             |  |  |
|                                    | EBR2 (O) | 1                       | 45.8                     | D                       |                          |                         |                              |                             |                     | 76              | 300             |  |  |
|                                    | WBL1 (I) | 172                     | 11.2                     | B                       |                          |                         |                              |                             |                     | 26              | 204             |  |  |
|                                    | WBL2 (O) | 97                      | 13.2                     | B                       |                          |                         |                              |                             |                     | 26              | 204             |  |  |
|                                    | WBT      | 340                     | 43.7                     | D                       |                          |                         |                              |                             |                     | 83              | 399             |  |  |
|                                    | WBR1 (I) | 95                      | 44.9                     | D                       |                          |                         |                              |                             |                     | 83              | 399             |  |  |
|                                    | WBR2 (O) | 290                     | 4.9                      | A                       | 31.5                     | C                       |                              |                             |                     | 1               | 69              |  |  |
|                                    | NBIL     | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |  |  |
|                                    | NBIT     | 1260                    | 31.5                     | C                       |                          |                         |                              |                             |                     | 77              | 410             |  |  |
|                                    | NBOT     | 843                     | 25.3                     | C                       | 24.4                     | C                       |                              |                             |                     | 71              | 362             |  |  |
|                                    | NBOR     | 53                      | 9.6                      | A                       |                          |                         |                              |                             |                     | 6               | 331             |  |  |
|                                    | SBIL     | 456                     | 33.7                     | C                       |                          |                         |                              |                             |                     | 46              | 250             |  |  |
|                                    | SBIT     | 1328                    | 5.7                      | A                       | 12.8                     | B                       |                              |                             |                     | 16              | 137             |  |  |
|                                    | SBOT     | 1147                    | 6.8                      | A                       |                          |                         |                              |                             |                     | 23              | 219             |  |  |
|                                    | SBOR     | 61                      | 7.9                      | A                       |                          |                         |                              |                             |                     | 23              | 219             |  |  |
| Roosevelt Blvd & Unruh Ave Ped     | WBR      | 10                      | 0.7                      | A                       | 0.7                      | A                       | 3.2                          | A                           |                     | 0               | 22              |  |  |
|                                    | NBIT     | 1380                    | 3.4                      | A                       | 3.4                      | A                       |                              |                             |                     | 1               | 50              |  |  |
|                                    | NBOT     | 1124                    | 2.1                      | A                       | 2.1                      | A                       |                              |                             |                     | 3               | 84              |  |  |
|                                    | NBOR     | 70                      | 2.8                      | A                       | 2.1                      | A                       |                              |                             |                     | 3               | 84              |  |  |
|                                    | SBIT     | 1784                    | 4.4                      | A                       | 4.4                      | A                       |                              |                             |                     | 3               | 88              |  |  |
|                                    | SBOT     | 1210                    | 2.3                      | A                       | 2.3                      | A                       |                              |                             |                     | 7               | 176             |  |  |
| Roosevelt Blvd & Longshore Ave Ped | SBOR     | 20                      | 3.9                      | A                       |                          |                         | 3.1                          | A                           |                     | 7               | 176             |  |  |
|                                    | WBR      | 20                      | 4.5                      | A                       | 4.5                      | A                       |                              |                             |                     | 1               | 45              |  |  |
|                                    | NBIT     | 1380                    | 3.4                      | A                       | 3.4                      | A                       |                              |                             |                     | 1               | 50              |  |  |
|                                    | NBOT     | 1153                    | 6.4                      | A                       | 6.4                      | A                       |                              |                             |                     | 4               | 112             |  |  |
|                                    | NBOR     | 4                       | 5.8                      | A                       | 6.4                      | A                       |                              |                             |                     | 4               | 136             |  |  |
|                                    | EBR      | 1                       | 3.3                      | A                       | 3.3                      | A                       |                              |                             |                     | 0               | 25              |  |  |
|                                    | SBIT     | 1784                    | 2.2                      | A                       | 2.2                      | A                       |                              |                             |                     | 3               | 87              |  |  |
| Roosevelt Blvd & Tyson Ave         | SBOT     | 1229                    | 1.2                      | A                       | 1.2                      | A                       | 38.3                         | D                           |                     | 6               | 153             |  |  |
|                                    | SBOR     | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 8               | 166             |  |  |
|                                    | EBL1 (I) | 121                     | 9.2                      | A                       | 31.5                     | C                       |                              |                             |                     | 25              | 173             |  |  |
|                                    | EBL2 (O) | 10                      | 7.8                      | A                       |                          |                         |                              |                             |                     | 25              | 173             |  |  |
|                                    | EBT      | 452                     | 37.8                     | D                       |                          |                         |                              |                             |                     | 59              | 330             |  |  |
|                                    | EBR1 (I) | 8                       | 39.2                     | D                       | 47.2                     | D                       |                              |                             |                     | 59              | 330             |  |  |
|                                    | EBR2 (O) | 3                       | 35.5                     | D                       |                          |                         |                              |                             |                     | 59              | 330             |  |  |
|                                    | WBL1 (I) | 189                     | 4.8                      | A                       |                          |                         |                              |                             |                     | 34              | 188             |  |  |
|                                    | WBL2 (O) | 104                     | 5.1                      | A                       | 51.5                     | D                       |                              |                             |                     | 34              | 188             |  |  |
|                                    | WBT      | 619                     | 65.5                     | E                       |                          |                         |                              |                             |                     | 163             | 513             |  |  |
|                                    | WBR1 (I) | 124                     | 55.4                     | E                       |                          |                         |                              |                             |                     | 163             | 513             |  |  |
| Roosevelt Blvd & Friendship St Ped | WBR2 (O) | 83                      | 46.7                     | D                       | 46.5                     | D                       |                              |                             |                     | 163             | 513             |  |  |
|                                    | NBIL     | 102                     | 64.8                     | E                       |                          |                         |                              |                             |                     | 142             | 460             |  |  |
|                                    | NBIT     | 1274                    | 50.4                     | D                       |                          |                         |                              |                             |                     | 142             | 460             |  |  |
|                                    | NBOT     | 1025                    | 45.8                     | D                       |                          |                         |                              |                             |                     | 460             | 159             |  |  |
|                                    | NBOR     | 141                     | 51.4                     | D                       |                          |                         |                              |                             |                     | 460             | 159             |  |  |
| Roosevelt Blvd & Cottman Ave       | SBIL     | 222                     | 47.9                     | D                       | 31.3                     | C                       |                              |                             |                     | 790             | 486             |  |  |
|                                    | SBIT     | 1586                    | 29.0                     | C                       |                          |                         |                              |                             |                     | 790             | 486             |  |  |
|                                    | SBOT     | 1123                    | 19.7                     | B                       |                          |                         |                              |                             |                     | 65              | 405             |  |  |
|                                    | SBOR     | 7                       | 19.7                     | B                       | 19.7                     | B                       |                              |                             |                     | 65              | 405             |  |  |
|                                    | NBIT     | 1408                    | 2.1                      | A                       |                          |                         |                              |                             |                     | 1               | 45              |  |  |
|                                    | NBOT     | 1141                    | 2.7                      | A                       |                          |                         |                              |                             |                     | 1               | 88              |  |  |
|                                    | SBIT     | 1662                    | 14.3                     | B                       |                          |                         |                              |                             |                     | 25              | 462             |  |  |
| Roosevelt Blvd & Cottman Ave       | SBOT     | 1285                    | 3.0                      | A                       | 3.0                      | A                       |                              |                             |                     | 10              | 262             |  |  |
|                                    | SBOR     | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 11              | 274             |  |  |
|                                    | EBL      | 152                     | 11.2                     | B                       | 18.8                     | B                       |                              |                             |                     | 13              | 155             |  |  |
|                                    | EBT      | 735                     | 19.7                     | B                       |                          |                         |                              |                             |                     | 47              | 211             |  |  |
|                                    | EBR      | 121                     | 23.1                     | C                       |                          |                         |                              |                             |                     | 47              | 211             |  |  |
|                                    | WBL      | 246                     | 9.6                      | A                       | 21.8                     | C                       |                              |                             |                     | 24              | 217             |  |  |
|                                    | WBT      | 926                     | 24.5                     | C                       |                          |                         |                              |                             |                     | 56              | 277             |  |  |
|                                    | WBR      | 128                     | 26.0                     | C                       |                          |                         |                              |                             |                     | 56              | 277             |  |  |
|                                    | NBL      | 368                     | 28.7                     | C                       | 23.7                     | C                       |                              |                             |                     | 63              | 337             |  |  |
|                                    | NBT      | 677                     | 22.2                     | C                       |                          |                         |                              |                             |                     | 63              | 337             |  |  |
|                                    | NBR      | 112                     | 16.3                     | B                       |                          |                         |                              |                             |                     | 63              | 337             |  |  |
| Roosevelt Blvd & Cottman Ave       | SBL      | 180                     | 17.4                     | B                       | 16.8                     | B                       |                              |                             |                     | 52              | 328             |  |  |
|                                    | SBT      | 920                     | 16.1                     | B                       |                          |                         |                              |                             |                     | 52              | 328             |  |  |
|                                    | SBR      | 101                     | 21.4                     | C                       |                          |                         |                              |                             |                     | 52              | 328             |  |  |

## 2025 Build AM (Screen 6.2)

| Intersection                            | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |     |     |
|---|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|-----|-----|
| Roosevelt Blvd & Borbeck Ave - Ryan Ave | EBL1 (I)  | 19                      | 45.0                     | D                       | 40.2                     | D                       | 25.5                         | C                           |                     | 56              | 317             |  |     |     |
|   | EBL2 (O)  | 79                      | 43.9                     | D                       |                          |                         |                              |                             |                     | 56              | 317             |  |     |     |
|   | EBT       | 129                     | 38.5                     | D                       |                          |                         |                              |                             |                     | 56              | 317             |  |     |     |
|   | EBR1 (I)  | 73                      | 38.4                     | D                       |                          |                         |                              |                             |                     | 56              | 317             |  |     |     |
|   | EBR2 (O)  | 2                       | 26.6                     | C                       |                          | 39.5                    |                              |                             |                     | 56              | 317             |  |     |     |
|   | WBL1 (I)  | 45                      | 39.6                     | D                       |                          | 25.5                    |                              |                             |                     | 81              | 365             |  |     |     |
|   | WBL2 (O)  | 89                      | 42.2                     | D                       |                          |                         |                              |                             |                     | 81              | 365             |  |     |     |
|   | WBT       | 250                     | 40.5                     | D                       | 43.6                     |                         |                              |                             | D                   |                 |                 |  | 81  | 365 |
|   | WBR1 (I)  | 71                      | 34.7                     | C                       |                          |                         |                              |                             |                     |                 |                 |  | 81  | 365 |
|   | WBR2 (O)  | 40                      | 36.3                     | D                       |                          |                         |                              |                             |                     |                 |                 |  | 84  | 369 |
|   | NBIU1 (I) | 15                      | 56.1                     | E                       | 28.2                     |                         |                              |                             | C                   |                 |                 |  | 340 | 48  |
|   | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     |                 |                 |  | 340 | 48  |
|   | NBIL      | 113                     | 75.4                     | E                       |                          |                         |                              |                             |                     |                 |                 |  | 340 | 48  |
|   | NBIT      | 1346                    | 40.8                     | D                       | 10.5                     | B                       | 25.5                         |                             |                     | 107             | 401             |  |     |     |
|   | NBOT      | 798                     | 28.8                     | C                       |                          |                         |                              |                             |                     | 65              | 385             |  |     |     |
|   | NBOR      | 70                      | 20.8                     | C                       |                          |                         |                              |                             |                     | 65              | 385             |  |     |     |
|   | SBIU1 (I) | 0                       | 0.0                      | A                       | 9.0                      | A                       |                              |                             |                     | 315             | 5               |  |     |     |
|   | SBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 315             | 5               |  |     |     |
|   | SBIL      | 33                      | 32.2                     | C                       |                          |                         |                              |                             |                     | 315             | 5               |  |     |     |
|   | SBIT      | 1527                    | 10.1                     | B                       | 2.6                      | A                       | 25.5                         |                             |                     | 31              | 208             |  |     |     |
|   | SBOT      | 1019                    | 9.0                      | A                       |                          |                         |                              |                             |                     | 30              | 190             |  |     |     |
|   | SBOR      | 9                       | 14.5                     | B                       |                          |                         |                              |                             |                     | 30              | 190             |  |     |     |
| Roosevelt Blvd & Rhawn St               | EBL1 (I)  | 35                      | 47.4                     | D                       | 41.2                     | D                       | 27.3                         | C                           |                     | 87              | 441             |  |     |     |
|   | EBL2 (O)  | 90                      | 49.3                     | D                       |                          |                         |                              |                             |                     | 87              | 441             |  |     |     |
|   | EBT       | 273                     | 39.6                     | D                       |                          |                         |                              |                             |                     | 87              | 441             |  |     |     |
|   | EBR1 (I)  | 59                      | 37.7                     | D                       |                          |                         |                              |                             |                     | 87              | 441             |  |     |     |
|   | EBR2 (O)  | 72                      | 37.4                     | D                       | 42.4                     | D                       |                              |                             |                     | 87              | 441             |  |     |     |
|   | WBL1 (I)  | 77                      | 44.2                     | D                       |                          |                         |                              |                             |                     | 66              | 260             |  |     |     |
|   | WBL2 (O)  | 72                      | 49.3                     | D                       |                          |                         |                              |                             |                     | 66              | 260             |  |     |     |
|   | WBT       | 305                     | 40.8                     | D                       | 32.1                     | C                       | 27.3                         |                             |                     | 66              | 260             |  |     |     |
|   | WBR1 (I)  | 73                      | 40.8                     | D                       |                          |                         |                              |                             |                     | 66              | 260             |  |     |     |
|   | WBR2 (O)  | 5                       | 40.0                     | D                       |                          |                         |                              |                             |                     | 66              | 260             |  |     |     |
|   | NBIU1 (I) | 0                       | 0.0                      | A                       | 24.7                     | C                       |                              |                             |                     | 21              | 130             |  |     |     |
|   | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 21              | 130             |  |     |     |
|   | NBIL      | 80                      | 49.4                     | D                       |                          |                         |                              |                             |                     | 21              | 130             |  |     |     |
|   | NBIT      | 1349                    | 31.1                     | C                       | 21.1                     | C                       | 27.3                         |                             |                     | 84              | 308             |  |     |     |
|   | NBOT      | 868                     | 24.4                     | C                       |                          |                         |                              |                             |                     | 63              | 274             |  |     |     |
|   | NBOR      | 42                      | 32.1                     | C                       |                          |                         |                              |                             |                     | 64              | 277             |  |     |     |
|   | SBIU1 (I) | 0                       | 0.0                      | A                       | 15.7                     | B                       |                              |                             |                     | 350             | 26              |  |     |     |
|   | SBIU2 (O) | 17                      | 35.8                     | D                       |                          |                         |                              |                             |                     | 350             | 26              |  |     |     |
|   | SBIL      | 85                      | 53.3                     | D                       |                          |                         |                              |                             |                     | 350             | 26              |  |     |     |
|   | SBIT      | 1428                    | 19.0                     | B                       | 2.6                      | A                       | 27.3                         |                             |                     | 52              | 327             |  |     |     |
|   | SBOT      | 882                     | 15.8                     | B                       |                          |                         |                              |                             |                     | 47              | 247             |  |     |     |
|   | SBOR      | 24                      | 11.5                     | B                       |                          |                         |                              |                             |                     | 47              | 248             |  |     |     |
| Roosevelt Blvd & Holme Ave - Solly Ave  | ERL       | 23                      | 21.8                     | C                       | 44.6                     | D                       | 26.5                         | C                           |                     | 41              | 235             |  |     |     |
|   | EBT       | 318                     | 46.4                     | D                       |                          |                         |                              |                             |                     | 52              | 184             |  |     |     |
|   | EBR       | 1                       | 15.5                     | B                       |                          |                         |                              |                             |                     | 52              | 184             |  |     |     |
|   | WBL       | 275                     | 43.9                     | D                       | 36.6                     | D                       |                              |                             |                     | 55              | 291             |  |     |     |
|   | WBT       | 325                     | 35.4                     | D                       |                          |                         |                              |                             |                     | 55              | 290             |  |     |     |
|   | WBR       | 129                     | 24.0                     | C                       | 27.7                     | C                       |                              |                             |                     | 7               | 189             |  |     |     |
|   | NBL       | 33                      | 17.0                     | B                       |                          |                         |                              |                             |                     | 64              | 248             |  |     |     |
|   | NBT       | 738                     | 29.7                     | C                       |                          |                         |                              |                             |                     | 64              | 248             |  |     |     |
|   | NBR       | 187                     | 21.6                     | C                       | 11.6                     | B                       |                              |                             |                     | 64              | 248             |  |     |     |
|   | SBL       | 294                     | 21.9                     | C                       |                          |                         |                              |                             |                     | 29              | 250             |  |     |     |
|   | SBT       | 687                     | 7.2                      | A                       |                          |                         |                              |                             |                     | 29              | 246             |  |     |     |
|   | SBR       | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 29              | 246             |  |     |     |
| Roosevelt Blvd & Strahle St             | EBL (I)   | 78                      | 43.3                     | D                       | 43.9                     | D                       | 13.1                         | B                           |                     | 34              | 160             |  |     |     |
|   | EBR1 (I)  | 68                      | 45.4                     | D                       |                          |                         |                              |                             |                     | 34              | 160             |  |     |     |
|   | EBR2 (O)  | 69                      | 43.0                     | D                       |                          |                         |                              |                             |                     | 34              | 160             |  |     |     |
|   | WBR (O)   | 9                       | 1.6                      | A                       | 1.6                      | A                       |                              |                             |                     | 0               | 31              |  |     |     |
|   | NBIU (O)  | 9                       | 79.5                     | E                       |                          |                         |                              |                             |                     | 56              | 395             |  |     |     |
|   | NBIL      | 72                      | 28.5                     | C                       | 19.8                     | B                       |                              |                             |                     | 56              | 395             |  |     |     |
|   | NBIT      | 1368                    | 19.0                     | B                       |                          |                         |                              |                             |                     | 56              | 395             |  |     |     |
|   | NBOT      | 895                     | 7.9                      | A                       | 7.8                      | A                       |                              |                             |                     | 1               | 109             |  |     |     |
|   | NBOR      | 17                      | 4.1                      | A                       |                          |                         |                              |                             |                     | 28              | 230             |  |     |     |
|   | SBIT      | 1473                    | 8.0                      | A                       |                          |                         |                              |                             |                     | 23              | 220             |  |     |     |
|   | SBOT      | 809                     | 7.7                      | A                       | 8.2                      | A                       |                              |                             |                     | 16              | 142             |  |     |     |
|   | SBOR      | 25                      | 23.6                     | C                       |                          |                         |                              |                             |                     | 16              | 142             |  |     |     |

## 2025 Build AM (Screen 6.2)

| Intersection                 | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|------------------------------|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Woodward St | EBL1 (I)  | 4                       | 39.5                     | D                       | 40.3                     | D                       | 17.0                         | B                           |                     | 22              | 139             |  |  |
|                              | EBL2 (O)  | 119                     | 40.3                     | D                       |                          |                         |                              |                             |                     | 22              | 139             |  |  |
|                              | EBT       | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 20              | 158             |  |  |
|                              | EBR1 (I)  | 99                      | 40.4                     | D                       |                          |                         |                              |                             |                     | 20              | 158             |  |  |
|                              | EBR2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 20              | 158             |  |  |
|                              | WBL1 (I)  | 46                      | 34.9                     | C                       | 35.3                     | D                       |                              |                             |                     | 230             | 18              |  |  |
|                              | WBL2 (O)  | 59                      | 34.8                     | C                       |                          |                         |                              |                             |                     | 230             | 18              |  |  |
|                              | WBT       | 114                     | 35.8                     | D                       |                          |                         |                              |                             |                     | 230             | 27              |  |  |
|                              | WBR1 (I)  | 25                      | 35.6                     | D                       | 20.5                     | C                       |                              |                             |                     | 230             | 27              |  |  |
|                              | WBR2 (O)  | 7                       | 32.2                     | C                       |                          |                         |                              |                             |                     | 230             | 27              |  |  |
|                              | NBIU1 (I) | 27                      | 57.1                     | E                       |                          |                         |                              |                             |                     | 68              | 368             |  |  |
|                              | NBIU2 (O) | 0                       | 0.0                      | A                       | 17.8                     | B                       |                              |                             |                     | 0               | 0               |  |  |
|                              | NBIL      | 77                      | 57.6                     | E                       |                          |                         |                              |                             |                     | 68              | 368             |  |  |
|                              | NBIT      | 1342                    | 17.7                     | B                       |                          |                         |                              |                             |                     | 68              | 368             |  |  |
|                              | NBOT      | 803                     | 16.8                     | B                       | 9.7                      | A                       |                              |                             |                     | 40              | 246             |  |  |
|                              | NBOR      | 55                      | 32.9                     | C                       |                          |                         |                              |                             |                     | 40              | 246             |  |  |
|                              | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 220             | 23              |  |  |
|                              | SBIU2 (O) | 0                       | 0.0                      | A                       | 9.2                      | A                       |                              |                             |                     | 220             | 0               |  |  |
|                              | SBIL      | 8                       | 34.7                     | C                       |                          |                         |                              |                             |                     | 220             | 23              |  |  |
|                              | SBIT      | 1316                    | 9.5                      | A                       |                          |                         |                              |                             |                     | 23              | 168             |  |  |
|                              | SBOT      | 717                     | 9.5                      | A                       | 220                      | A                       |                              |                             |                     | 23              | 157             |  |  |
|                              | SBOR      | 47                      | 5.6                      | A                       |                          |                         |                              |                             |                     | 23              | 157             |  |  |
| Roosevelt Blvd & Welsh Rd    | EBL1 (I)  | 4                       | 47.9                     | D                       | 45.2                     | D                       | 32.6                         | C                           |                     | 5               | 66              |  |  |
|                              | EBL2 (O)  | 35                      | 45.0                     | D                       |                          |                         |                              |                             |                     | 5               | 66              |  |  |
|                              | EBT       | 276                     | 45.5                     | D                       |                          |                         |                              |                             |                     | 119             | 498             |  |  |
|                              | EBR1 (I)  | 152                     | 45.6                     | D                       |                          |                         |                              |                             |                     | 119             | 498             |  |  |
|                              | EBR2 (O)  | 57                      | 42.3                     | D                       | 40.7                     | D                       |                              |                             |                     | 119             | 498             |  |  |
|                              | WBL1 (I)  | 43                      | 39.9                     | D                       |                          |                         |                              |                             |                     | 21              | 148             |  |  |
|                              | WBL2 (O)  | 88                      | 50.3                     | D                       |                          |                         |                              |                             |                     | 21              | 148             |  |  |
|                              | WBT       | 368                     | 38.7                     | D                       | 52.0                     | D                       |                              |                             |                     | 81              | 432             |  |  |
|                              | WBR1 (I)  | 19                      | 41.1                     | D                       |                          |                         |                              |                             |                     | 81              | 432             |  |  |
|                              | WBR2 (O)  | 20                      | 36.9                     | D                       |                          |                         |                              |                             |                     | 81              | 432             |  |  |
|                              | NBIU1 (I) | 0                       | 0.0                      | A                       | 35.5                     | D                       |                              |                             |                     | 143             | 398             |  |  |
|                              | NBIU2 (O) | 16                      | 58.3                     | E                       |                          |                         |                              |                             |                     | 143             | 398             |  |  |
|                              | NBIL      | 162                     | 63.1                     | E                       |                          |                         |                              |                             |                     | 143             | 398             |  |  |
|                              | NBIT      | 1189                    | 50.4                     | D                       | 12.1                     | B                       |                              |                             |                     | 143             | 398             |  |  |
|                              | NBOT      | 852                     | 38.7                     | D                       |                          |                         |                              |                             |                     | 94              | 412             |  |  |
|                              | NBOR      | 118                     | 12.1                     | B                       |                          |                         |                              |                             |                     | 94              | 412             |  |  |
|                              | SBIU (O)  | 0                       | 0.0                      | A                       | 6.2                      | A                       |                              |                             |                     | 34              | 211             |  |  |
|                              | SBIL      | 61                      | 74.2                     | E                       |                          |                         |                              |                             |                     | 34              | 211             |  |  |
|                              | SBIT      | 1121                    | 8.7                      | A                       |                          |                         |                              |                             |                     | 19              | 182             |  |  |
|                              | SBOT      | 595                     | 6.2                      | A                       | 220                      | A                       |                              |                             |                     | 19              | 182             |  |  |
|                              | SBOR      | 7                       | 3.7                      | A                       |                          |                         |                              |                             |                     | 33              | 289             |  |  |
| Roosevelt Blvd & Goodnaw St  | EBL1 (I)  | 17                      | 35.5                     | D                       | 30.6                     | C                       | 26.9                         | C                           |                     | 18              | 124             |  |  |
|                              | EBL2 (O)  | 89                      | 29.9                     | C                       |                          |                         |                              |                             |                     | 18              | 124             |  |  |
|                              | EBT       | 1                       | 25.0                     | C                       |                          |                         |                              |                             |                     | 18              | 124             |  |  |
|                              | EBR1 (I)  | 30                      | 30.2                     | C                       |                          |                         |                              |                             |                     | 18              | 124             |  |  |
|                              | EBR2 (O)  | 25                      | 30.6                     | C                       | 28.1                     | C                       |                              |                             |                     | 18              | 124             |  |  |
|                              | WBL1 (I)  | 15                      | 28.7                     | C                       |                          |                         |                              |                             |                     | 4               | 56              |  |  |
|                              | WBL2 (O)  | 1                       | 8.6                      | A                       |                          |                         |                              |                             |                     | 4               | 56              |  |  |
|                              | WBT       | 0                       | 2.7                      | A                       | 30.2                     | C                       |                              |                             |                     | 4               | 56              |  |  |
|                              | WBR1 (I)  | 25                      | 28.0                     | C                       |                          |                         |                              |                             |                     | 4               | 56              |  |  |
|                              | WBR2 (O)  | 3                       | 34.5                     | C                       |                          |                         |                              |                             |                     | 2               | 58              |  |  |
|                              | NBIU1 (I) | 0                       | 0.0                      | A                       | 27.4                     | C                       |                              |                             |                     | 71              | 307             |  |  |
|                              | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 71              | 307             |  |  |
|                              | NBIL      | 21                      | 32.1                     | C                       |                          |                         |                              |                             |                     | 71              | 307             |  |  |
|                              | NBIT      | 1180                    | 30.1                     | C                       | 26.1                     | C                       |                              |                             |                     | 71              | 307             |  |  |
|                              | NBOT      | 895                     | 27.4                     | C                       |                          |                         |                              |                             |                     | 76              | 287             |  |  |
|                              | NBOR      | 11                      | 24.2                     | C                       |                          |                         |                              |                             |                     | 76              | 287             |  |  |
|                              | SBIU1 (I) | 0                       | 0.0                      | A                       | 20.3                     | C                       |                              |                             |                     | 62              | 418             |  |  |
|                              | SBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 62              | 418             |  |  |
|                              | SBIL      | 45                      | 54.0                     | D                       |                          |                         |                              |                             |                     | 220             | 62              |  |  |
|                              | SBIT      | 1128                    | 25.0                     | C                       | 20.3                     | C                       |                              |                             |                     | 62              | 418             |  |  |
|                              | SBOT      | 577                     | 20.5                     | C                       |                          |                         |                              |                             |                     | 36              | 288             |  |  |
|                              | SBOR      | 52                      | 18.5                     | B                       |                          |                         |                              |                             |                     | 33              | 289             |  |  |

## 2025 Build AM (Screen 6.2)

| Intersection                               | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|--|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Grant Ave                 | EBL1 (I)  | 60                      | 55.4                     | E                       | 38.2                     | D                       | 36.6                         | D                           |                     | 25              | 308             |  |  |
|  | EBL2 (O)  | 96                      | 52.8                     | D                       |                          |                         |                              |                             |                     | 25              | 308             |  |  |
|  | EBT       | 774                     | 35.4                     | D                       |                          |                         |                              |                             |                     | 86              | 414             |  |  |
|  | EBR1 (I)  | 60                      | 34.6                     | C                       |                          |                         |                              |                             |                     | 86              | 414             |  |  |
|  | EBR2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 86              | 414             |  |  |
|  | WBL1 (I)  | 37                      | 49.1                     | D                       | 37.3                     | D                       |                              |                             |                     | 24              | 171             |  |  |
|  | WBL2 (O)  | 123                     | 50.2                     | D                       |                          |                         |                              |                             |                     | 24              | 171             |  |  |
|  | WBT       | 899                     | 35.5                     | D                       |                          |                         |                              |                             |                     | 89              | 395             |  |  |
|  | WBR1 (I)  | 113                     | 34.0                     | C                       |                          |                         |                              |                             |                     | 89              | 395             |  |  |
|  | WBR2 (O)  | 11                      | 32.5                     | C                       |                          |                         |                              |                             |                     | 89              | 395             |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       | 45.7                     | D                       |                              |                             |                     | 121             | 413             |  |  |
|  | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 121             | 413             |  |  |
|  | NBIL      | 157                     | 69.8                     | E                       |                          |                         |                              |                             |                     | 121             | 413             |  |  |
|  | NBIT      | 1061                    | 42.1                     | D                       |                          |                         |                              |                             |                     | 121             | 413             |  |  |
|  | NBOT      | 783                     | 44.8                     | D                       | 44.3                     | D                       |                              |                             |                     | 109             | 488             |  |  |
|  | NBOR      | 197                     | 42.5                     | D                       |                          |                         |                              |                             |                     | 110             | 489             |  |  |
|  | SBIU1 (I) | 1                       | 37.4                     | D                       |                          |                         |                              |                             |                     | 69              | 361             |  |  |
|  | SBIU2 (O) | 1                       | 62.9                     | E                       | 26.0                     | C                       |                              |                             |                     | 69              | 361             |  |  |
|  | SBIL      | 280                     | 56.7                     | E                       |                          |                         |                              |                             |                     | 69              | 361             |  |  |
|  | SBIT      | 1075                    | 17.9                     | B                       |                          |                         |                              |                             |                     | 69              | 361             |  |  |
|  | SBOT      | 449                     | 20.4                     | C                       | 23.2                     | C                       |                              |                             |                     | 67              | 327             |  |  |
|  | SBOR      | 43                      | 52.3                     | D                       |                          |                         |                              |                             |                     | 65              | 327             |  |  |
| Roosevelt Blvd & Whitman Plaza - Fulmer St | EBR       | 39                      | 1.2                      | A                       | 1.2                      | A                       | 15.8                         | B                           |                     | 0               | 39              |  |  |
|  | WBL       | 2                       | 26.5                     | C                       | 30.1                     | C                       |                              |                             |                     | 14              | 122             |  |  |
|  | WBR1 (I)  | 58                      | 31.3                     | C                       |                          |                         |                              |                             |                     | 14              | 122             |  |  |
|  | WBR2 (O)  | 31                      | 28.1                     | C                       |                          |                         |                              |                             |                     | 14              | 122             |  |  |
|  | NBIU      | 0                       | 2.1                      | A                       | 17.0                     | B                       |                              |                             |                     | 48              | 328             |  |  |
|  | NBIT      | 1234                    | 17.0                     | B                       |                          |                         |                              |                             |                     | 48              | 328             |  |  |
|  | NBOT      | 796                     | 25.1                     | C                       |                          |                         |                              |                             |                     | 56              | 482             |  |  |
|  | NBOR      | 97                      | 23.6                     | C                       | 25.0                     | C                       |                              |                             |                     | 56              | 482             |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 40              | 476             |  |  |
|  | SBIU2 (O) | 7                       | 73.2                     | E                       |                          |                         |                              |                             |                     | 40              | 476             |  |  |
|  | SBIL      | 64                      | 66.0                     | E                       | 11.3                     | B                       |                              |                             |                     | 40              | 476             |  |  |
|  | SBIT      | 1347                    | 8.3                      | A                       |                          |                         |                              |                             |                     | 40              | 476             |  |  |
|  | SBOT      | 461                     | 7.3                      | A                       |                          |                         |                              |                             |                     | 14              | 201             |  |  |
|  | SBOR      | 5                       | 10.0                     | B                       | 7.3                      | A                       |                              |                             |                     | 14              | 201             |  |  |
| Roosevelt Blvd & Lott Street               | EBL1 (I)  | 133                     | 41.3                     | D                       | 41.9                     | D                       | 19.4                         | B                           |                     | 36              | 232             |  |  |
|  | EBR1 (I)  | 65                      | 43.0                     | D                       |                          |                         |                              |                             |                     | 36              | 232             |  |  |
|  | EBR2 (O)  | 10                      | 43.4                     | D                       |                          |                         |                              |                             |                     | 36              | 232             |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       | 19.8                     | B                       |                              |                             |                     | 54              | 501             |  |  |
|  | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 54              | 501             |  |  |
|  | NBIL      | 57                      | 39.5                     | D                       |                          |                         |                              |                             |                     | 54              | 501             |  |  |
|  | NBIT      | 1243                    | 18.9                     | B                       | 17.5                     | B                       |                              |                             |                     | 54              | 501             |  |  |
|  | NBOT      | 840                     | 17.5                     | B                       |                          |                         |                              |                             |                     | 40              | 500             |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 53              | 426             |  |  |
|  | SBIT      | 1388                    | 17.9                     | B                       | 17.9                     | B                       |                              |                             |                     | 53              | 426             |  |  |
|  | SBOT      | 471                     | 16.4                     | B                       |                          |                         |                              |                             |                     | 26              | 194             |  |  |
|  | SBOR      | 0                       | 0.0                      | A                       | 16.4                     | B                       |                              |                             |                     | 26              | 194             |  |  |
| Roosevelt Blvd & Bowler St Ped             | EBR       | 92                      | 5.4                      | A                       | 5.4                      | A                       | 2.1                          | A                           |                     | 2               | 68              |  |  |
|  | NBIT      | 1375                    | 2.4                      | A                       | 2.4                      | A                       |                              |                             |                     | 4               | 225             |  |  |
|  | NBOT      | 838                     | 1.0                      | A                       | 1.0                      | A                       |                              |                             |                     | 5               | 201             |  |  |
|  | SBIT      | 1382                    | 2.6                      | A                       | 2.6                      | A                       |                              |                             |                     | 0               | 33              |  |  |
|  | SBOT      | 378                     | 1.2                      | A                       | 1.3                      | A                       |                              |                             |                     | 3               | 99              |  |  |
|  | SBOR      | 13                      | 4.5                      | A                       |                          |                         |                              |                             |                     | 3               | 99              |  |  |
| Roosevelt Blvd & Conwell Ave               | EBL1 (I)  | 133                     | 40.3                     | D                       | 40.3                     | D                       | 15.9                         | B                           |                     | 27              | 177             |  |  |
|  | EBR1 (I)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 27              | 177             |  |  |
|  | EBR2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 27              | 177             |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       | 21.2                     | C                       |                              |                             |                     | 61              | 520             |  |  |
|  | NBIU2 (O) | 13                      | 63.1                     | E                       |                          |                         |                              |                             |                     | 61              | 520             |  |  |
|  | NBIL      | 60                      | 77.9                     | E                       |                          |                         |                              |                             |                     | 61              | 520             |  |  |
|  | NBIT      | 1284                    | 18.1                     | B                       | 19.9                     | B                       |                              |                             |                     | 61              | 520             |  |  |
|  | NBOT      | 824                     | 19.9                     | B                       |                          |                         |                              |                             |                     | 42              | 512             |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 19              | 185             |  |  |
|  | SBIT      | 1379                    | 9.2                      | A                       | 9.2                      | A                       |                              |                             |                     | 19              | 185             |  |  |
|  | SBOT      | 377                     | 3.3                      | A                       |                          |                         |                              |                             |                     | 10              | 100             |  |  |
|  | SBOR      | 0                       | 0.0                      | A                       | 3.3                      | A                       |                              |                             |                     | 5               | 100             |  |  |

## 2025 Build AM (Screen 6.2)

| Intersection                       | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|------------------------------------|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Red Lion Rd       | EBL1 (I)  | 45                      | 46.2                     | D                       | 45.3                     | D                       | 32.3                         | C                           | 270                 | 22              | 145             |  |  |
|                                    | EBL2 (O)  | 80                      | 49.4                     | D                       |                          |                         |                              |                             | 270                 | 22              | 145             |  |  |
|                                    | EBT       | 513                     | 42.8                     | D                       |                          |                         |                              |                             |                     | 134             | 507             |  |  |
|                                    | EBR1 (I)  | 284                     | 48.7                     | D                       |                          |                         |                              |                             |                     | 134             | 507             |  |  |
|                                    | EBR2 (O)  | 49                      | 45.0                     | D                       |                          |                         |                              |                             |                     | 134             | 507             |  |  |
|                                    | WBL1 (I)  | 62                      | 49.9                     | D                       | 44.8                     | D                       |                              |                             |                     | 22              | 156             |  |  |
|                                    | WBL2 (O)  | 66                      | 55.8                     | E                       |                          |                         |                              |                             |                     | 22              | 156             |  |  |
|                                    | WBT       | 452                     | 43.0                     | D                       |                          |                         |                              |                             |                     | 119             | 516             |  |  |
|                                    | WBR1 (I)  | 1                       | 40.3                     | D                       |                          |                         |                              |                             |                     | 119             | 516             |  |  |
|                                    | WBR2 (O)  | 50                      | 40.1                     | D                       |                          |                         |                              |                             |                     | 119             | 516             |  |  |
|                                    | NBIU1 (I) | 3                       | 55.8                     | E                       | 38.7                     | D                       |                              |                             |                     | 100             | 498             |  |  |
|                                    | NBIU2 (O) | 1                       | 52.1                     | D                       |                          |                         |                              |                             |                     | 100             | 498             |  |  |
|                                    | NBIL      | 216                     | 68.8                     | E                       |                          |                         |                              |                             |                     | 100             | 498             |  |  |
|                                    | NBIT      | 1198                    | 33.2                     | C                       | 33.0                     | C                       |                              |                             |                     | 100             | 498             |  |  |
|                                    | NBOT      | 664                     | 33.4                     | C                       |                          |                         |                              |                             |                     | 68              | 488             |  |  |
|                                    | NBOR      | 160                     | 31.4                     | C                       |                          |                         |                              |                             |                     | 68              | 488             |  |  |
|                                    | SBIU1 (I) | 0                       | 0.0                      | A                       | 13.9                     | B                       |                              |                             |                     | 48              | 201             |  |  |
|                                    | SBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 48              | 201             |  |  |
|                                    | SBIL      | 91                      | 54.5                     | D                       |                          |                         |                              |                             |                     | 48              | 201             |  |  |
|                                    | SBIT      | 1039                    | 10.4                     | B                       | 11.7                     | B                       |                              |                             |                     | 48              | 201             |  |  |
|                                    | SBOT      | 347                     | 12.1                     | B                       |                          |                         |                              |                             |                     | 26              | 173             |  |  |
|                                    | SBOR      | 115                     | 10.5                     | B                       |                          |                         |                              |                             |                     | 26              | 173             |  |  |
| Roosevelt Blvd & Tomlinson Ave Ped | EBR       | 85                      | 5.8                      | A                       | 5.8                      | A                       | 2.0                          | A                           | 2                   | 68              |                 |  |  |
|                                    | NBIT      | 1243                    | 1.3                      | A                       | 1.3                      | A                       |                              |                             | 1                   | 36              |                 |  |  |
|                                    | NBOT      | 788                     | 3.0                      | A                       | 3.0                      | A                       |                              |                             | 1                   | 78              |                 |  |  |
|                                    | SBIT      | 1128                    | 2.0                      | A                       | 2.0                      | A                       |                              |                             | 0                   | 25              |                 |  |  |
|                                    | SBOT      | 379                     | 1.3                      | A                       | 1.3                      | A                       |                              |                             | 0                   | 27              |                 |  |  |
|                                    | SBOR      | 1                       | 1.5                      | A                       |                          |                         |                              |                             | 0                   | 42              |                 |  |  |
| Roosevelt Blvd & Haldeman Ave      | EBL1 (I)  | 352                     | 48.5                     | D                       | 46.4                     | D                       | 17.2                         | B                           | 95                  | 344             |                 |  |  |
|                                    | EBL2 (O)  | 280                     | 43.8                     | D                       |                          |                         |                              |                             | 95                  | 344             |                 |  |  |
|                                    | EBT       | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 95                  | 344             |                 |  |  |
|                                    | EBR2 (O)  | 0                       | 0.0                      | A                       | 21.7                     | C                       |                              |                             | 102                 | 353             |                 |  |  |
|                                    | WBL1 (I)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 1                   | 40              |                 |  |  |
|                                    | WBL2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 1                   | 40              |                 |  |  |
|                                    | WBR1 (I)  | 8                       | 33.9                     | C                       |                          |                         |                              |                             | 1                   | 40              |                 |  |  |
|                                    | WBR2 (O)  | 7                       | 7.1                      | A                       |                          |                         |                              |                             | 2                   | 52              |                 |  |  |
|                                    | NBIT      | 1227                    | 17.2                     | B                       | 17.2                     | B                       |                              |                             | 30                  | 446             |                 |  |  |
|                                    | NBOT      | 748                     | 16.8                     | B                       | 16.6                     | B                       |                              |                             | 30                  | 383             |                 |  |  |
|                                    | NBOR      | 25                      | 11.8                     | B                       |                          |                         |                              |                             | 30                  | 383             |                 |  |  |
|                                    | SBIT      | 1128                    | 2.3                      | A                       | 2.3                      | A                       |                              |                             | 5                   | 74              |                 |  |  |
|                                    | SBOT      | 380                     | 17.0                     | B                       | 15.7                     | B                       |                              |                             | 27                  | 262             |                 |  |  |
|                                    | SBOR      | 524                     | 14.7                     | B                       |                          |                         |                              |                             | 37                  | 561             |                 |  |  |
| Roosevelt Blvd & Plaza Dr          | EBL1 (I)  | 0                       | 0.0                      | A                       | 37.6                     | D                       | 8.1                          | A                           | 31                  | 155             |                 |  |  |
|                                    | EBL2 (O)  | 25                      | 34.4                     | C                       |                          |                         |                              |                             | 31                  | 155             |                 |  |  |
|                                    | EBT       | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 31                  | 155             |                 |  |  |
|                                    | EBR1 (I)  | 28                      | 39.7                     | D                       | 33.6                     | C                       |                              |                             | 31                  | 155             |                 |  |  |
|                                    | EBR2 (O)  | 148                     | 37.7                     | D                       |                          |                         |                              |                             | 33                  | 156             |                 |  |  |
|                                    | WBL1 (I)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 1                   | 21              |                 |  |  |
|                                    | WBL2 (O)  | 0                       | 0.0                      | A                       | 10.4                     | B                       |                              |                             | 1                   | 21              |                 |  |  |
|                                    | WBT       | 1                       | 54.5                     | D                       |                          |                         |                              |                             | 1                   | 21              |                 |  |  |
|                                    | WBR1 (I)  | 1                       | 24.4                     | C                       |                          |                         |                              |                             | 1                   | 21              |                 |  |  |
|                                    | WBR2 (O)  | 1                       | 15.2                     | B                       | 11.5                     | B                       |                              |                             | 1                   | 21              |                 |  |  |
|                                    | NBIU1 (I) | 1                       | 41.1                     | D                       |                          |                         |                              |                             | 230                 | 8               | 103             |  |  |
|                                    | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 230                 | 8               | 103             |  |  |
|                                    | NBIL      | 42                      | 28.9                     | C                       | 3.5                      | A                       |                              |                             | 230                 | 8               | 103             |  |  |
|                                    | NBOT      | 1546                    | 2.8                      | A                       |                          |                         |                              |                             | 8                   | 103             |                 |  |  |
|                                    | NBOR      | 1033                    | 3.7                      | A                       |                          |                         |                              |                             | 9                   | 170             |                 |  |  |
|                                    | SBIT      | 1099                    | 10.4                     | B                       | 10.4                     | B                       |                              |                             | 24                  | 209             |                 |  |  |
|                                    | SBOT      | 761                     | 9.9                      | A                       | 11.5                     | B                       |                              |                             | 11                  | 166             |                 |  |  |
|                                    | SBOR      | 187                     | 18.2                     | B                       |                          |                         |                              |                             | 51                  | 552             |                 |  |  |

## 2025 Build AM (Screen 6.2)

| Intersection                           | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |  |
|--|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|--|
| Roosevelt Blvd & Comly Rd              | EBL1 (I)  | 0                       | 0.0                      | A                       | 0.0                      | A                       | 28.0                         | C                           | 55                  | 0               | 0               |  |  |  |
|  | EBL2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 0               | 0               |  |  |  |
|  | EBT       | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 0               | 0               |  |  |  |
|  | EBR1 (I)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 0               | 0               |  |  |  |
|  | EBR2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 0               | 0               |  |  |  |
|  | WBL1 (I)  | 108                     | 36.7                     | D                       | 41.7                     | D                       |                              |                             |                     | 55              | 282             |  |  |  |
|  | WBL2 (O)  | 157                     | 42.8                     | D                       |                          |                         |                              |                             |                     | 55              | 282             |  |  |  |
|  | WBT       | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 55              | 282             |  |  |  |
|  | WBR1 (I)  | 202                     | 43.2                     | D                       |                          |                         |                              |                             |                     | 55              | 282             |  |  |  |
|  | WBR2 (O)  | 47                      | 43.3                     | D                       |                          |                         |                              |                             |                     | 55              | 282             |  |  |  |
|  | NBIL      | 0                       | 0.0                      | A                       | 34.3                     | C                       |                              |                             |                     | 71              | 459             |  |  |  |
|  | NBIT      | 1109                    | 34.3                     | C                       |                          |                         |                              |                             |                     | 71              | 459             |  |  |  |
|  | NBOT      | 1336                    | 30.3                     | C                       | 30.4                     | C                       |                              |                             |                     | 154             | 513             |  |  |  |
|  | NBOR      | 155                     | 31.6                     | C                       |                          |                         |                              |                             |                     | 154             | 513             |  |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       | 25.6                     | C                       |                              |                             |                     | 225             | 477             |  |  |  |
|  | SBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 225             | 477             |  |  |  |
|  | SBIL      | 279                     | 81.5                     | F                       |                          |                         |                              |                             |                     | 225             | 478             |  |  |  |
|  | SBIT      | 988                     | 9.8                      | A                       |                          |                         |                              |                             |                     | 855             | 123             |  |  |  |
|  | SBOT      | 858                     | 11.1                     | B                       | 11.1                     | B                       |                              |                             |                     | 25              | 338             |  |  |  |
|  | SBOR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 25              | 338             |  |  |  |
| Roosevelt Blvd & Byberry Rd            | EBL (I)   | 73                      | 38.4                     | D                       | 40.8                     | D                       | 17.2                         | B                           | 45                  | 244             |                 |  |  |  |
|  | EBR1 (I)  | 82                      | 40.1                     | D                       |                          |                         |                              |                             |                     | 45              | 244             |  |  |  |
|  | EBR2 (O)  | 125                     | 42.6                     | D                       |                          |                         |                              |                             |                     | 45              | 244             |  |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       | 19.9                     | B                       |                              |                             |                     | 79              | 412             |  |  |  |
|  | NBIU2 (O) | 15                      | 57.9                     | E                       |                          |                         |                              |                             |                     | 79              | 412             |  |  |  |
|  | NBIL      | 169                     | 64.8                     | E                       |                          |                         |                              |                             |                     | 79              | 412             |  |  |  |
|  | NBIT      | 1112                    | 12.5                     | B                       |                          |                         |                              |                             |                     | 79              | 412             |  |  |  |
|  | NBOT      | 892                     | 2.0                      | A                       | 2.4                      | A                       |                              |                             |                     | 1               | 49              |  |  |  |
|  | NBOR      | 489                     | 3.1                      | A                       |                          |                         |                              |                             |                     | 0               | 4               |  |  |  |
|  | SBIT      | 1189                    | 24.3                     | C                       | 24.3                     | C                       |                              |                             |                     | 54              | 402             |  |  |  |
| Roosevelt Blvd & Hornig Rd - Crown Way | SBOT      | 720                     | 23.3                     | C                       | 19.6                     | B                       | 32.4                         | C                           | 49                  | 282             |                 |  |  |  |
|  | SBOR      | 170                     | 3.6                      | A                       |                          |                         |                              |                             |                     | 3               | 203             |  |  |  |
|  | EBL1 (I)  | 41                      | 33.1                     | C                       | 32.3                     | C                       |                              |                             |                     | 7               | 74              |  |  |  |
|  | EBL2 (O)  | 2                       | 27.4                     | C                       |                          |                         |                              |                             |                     | 7               | 74              |  |  |  |
|  | EBT       | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 7               | 74              |  |  |  |
|  | EBR1 (I)  | 1                       | 8.5                      | A                       |                          |                         |                              |                             |                     | 7               | 74              |  |  |  |
|  | EBR2 (O)  | 0                       | 0.0                      | A                       | 30.1                     | C                       |                              |                             |                     | 7               | 74              |  |  |  |
|  | WBL1 (I)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 3               | 47              |  |  |  |
|  | WBL2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 3               | 47              |  |  |  |
|  | WBT       | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 3               | 47              |  |  |  |
|  | WBR1 (I)  | 0                       | 0.0                      | A                       | 56.5                     | E                       |                              |                             |                     | 3               | 47              |  |  |  |
|  | WBR2 (O)  | 21                      | 30.1                     | C                       |                          |                         |                              |                             |                     | 3               | 47              |  |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 320             | 95              |  |  |  |
|  | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 320             | 95              |  |  |  |
|  | NBIL      | 140                     | 76.0                     | E                       |                          |                         |                              |                             |                     | 320             | 95              |  |  |  |
|  | NBIT      | 1698                    | 55.0                     | D                       |                          |                         |                              |                             |                     | 95              | 423             |  |  |  |
|  | NBOT      | 1103                    | 51.1                     | D                       | 50.4                     | D                       |                              |                             |                     | 90              | 385             |  |  |  |
|  | NBOR      | 127                     | 44.2                     | D                       |                          |                         |                              |                             |                     | 107             | 415             |  |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       | 8.8                      | A                       |                              |                             |                     | 26              | 119             |  |  |  |
|  | SBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 26              | 119             |  |  |  |
|  | SBIL      | 54                      | 43.7                     | D                       |                          |                         |                              |                             |                     | 26              | 119             |  |  |  |
|  | SBIT      | 1194                    | 7.2                      | A                       | 7.6                      | A                       |                              |                             |                     | 26              | 119             |  |  |  |
|  | SBOT      | 1257                    | 7.2                      | A                       |                          |                         |                              |                             |                     | 52              | 220             |  |  |  |
|  | SBOR      | 228                     | 9.7                      | A                       |                          |                         |                              |                             |                     | 52              | 220             |  |  |  |

## 2025 Build AM (Screen 6.2)

| Intersection                     | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|----------------------------------|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Southampton Rd  | EBL1 (I)  | 38                      | 39.5                     | D                       | 37.7                     | D                       | 34.7                         | C                           | 300                 | 10              | 99              |  |  |
|                                  | EBL2 (O)  | 36                      | 40.2                     | D                       |                          |                         |                              |                             | 300                 | 10              | 99              |  |  |
|                                  | EBT       | 431                     | 36.4                     | D                       |                          |                         |                              |                             | 77                  | 335             |                 |  |  |
|                                  | EBR1 (I)  | 64                      | 40.1                     | D                       |                          |                         |                              |                             | 77                  | 335             |                 |  |  |
|                                  | EBR2 (O)  | 201                     | 38.8                     | D                       |                          |                         |                              |                             | 77                  | 335             |                 |  |  |
|                                  | WBL1 (I)  | 130                     | 59.9                     | E                       | 44.8                     | D                       |                              |                             | 370                 | 69              | 399             |  |  |
|                                  | WBL2 (O)  | 134                     | 62.7                     | E                       |                          |                         |                              |                             | 370                 | 69              | 399             |  |  |
|                                  | WBT       | 283                     | 34.5                     | C                       |                          |                         |                              |                             | 59                  | 270             |                 |  |  |
|                                  | WBR1 (I)  | 129                     | 40.1                     | D                       |                          |                         |                              |                             | 370                 | 59              | 270             |  |  |
|                                  | WBR2 (O)  | 125                     | 37.8                     | D                       |                          |                         |                              |                             | 370                 | 59              | 270             |  |  |
|                                  | NBIU1 (I) | 2                       | 33.1                     | C                       | 26.7                     | C                       |                              |                             | 720                 | 93              | 270             |  |  |
|                                  | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 720                 | 93              | 270             |  |  |
|                                  | NBIL      | 218                     | 26.2                     | C                       |                          |                         |                              |                             | 720                 | 93              | 270             |  |  |
|                                  | NBIT      | 1525                    | 26.8                     | C                       | 29.1                     | C                       |                              |                             | 93                  | 270             |                 |  |  |
|                                  | NBOT      | 1012                    | 29.4                     | C                       |                          |                         |                              |                             | 82                  | 312             |                 |  |  |
|                                  | NBOR      | 113                     | 27.1                     | C                       |                          |                         |                              |                             | 82                  | 312             |                 |  |  |
|                                  | SBIU1 (I) | 1                       | 15.5                     | B                       | 29.4                     | C                       |                              |                             | 650                 | 100             | 288             |  |  |
|                                  | SBIU2 (O) | 2                       | 20.5                     | C                       |                          |                         |                              |                             | 650                 | 100             | 288             |  |  |
|                                  | SBIL      | 326                     | 22.9                     | C                       |                          |                         |                              |                             | 650                 | 100             | 288             |  |  |
|                                  | SBIT      | 1053                    | 31.4                     | C                       |                          |                         |                              |                             | 100                 | 288             |                 |  |  |
|                                  | SBOT      | 1152                    | 48.7                     | D                       | 48.8                     | D                       |                              |                             | 159                 | 477             |                 |  |  |
|                                  | SBOR      | 61                      | 49.3                     | D                       |                          |                         |                              |                             | 159                 | 477             |                 |  |  |
| Roosevelt Blvd & Northgate Dr    | EBL       | 97                      | 32.6                     | C                       | 20.4                     | C                       | 19.9                         | B                           | 16                  | 129             |                 |  |  |
|                                  | EBT       | 0                       | 6.6                      | A                       |                          |                         |                              |                             | 12                  | 129             |                 |  |  |
|                                  | EBR       | 102                     | 8.8                      | A                       |                          |                         |                              |                             | 29                  | 158             |                 |  |  |
|                                  | WBL       | 12                      | 31.2                     | C                       | 24.4                     | C                       |                              |                             | 2                   | 61              |                 |  |  |
|                                  | WBT       | 4                       | 24.3                     | C                       |                          |                         |                              |                             | 1                   | 61              |                 |  |  |
|                                  | WBR       | 17                      | 19.5                     | B                       |                          |                         |                              |                             | 4                   | 75              |                 |  |  |
|                                  | NBL       | 237                     | 88.3                     | F                       | 21.7                     | C                       |                              |                             | 104                 | 626             |                 |  |  |
|                                  | NBT       | 2607                    | 15.7                     | B                       |                          |                         |                              |                             | 25                  | 240             |                 |  |  |
|                                  | NBR       | 21                      | 23.5                     | C                       |                          |                         |                              |                             | 22                  | 232             |                 |  |  |
| Roosevelt Blvd & Old Lincoln Hwy | SBT       | 2497                    | 17.8                     | B                       | 17.8                     | B                       |                              |                             | 96                  | 427             |                 |  |  |
|                                  | SBR       | 29                      | 15.6                     | B                       |                          |                         |                              |                             | 100                 | 434             |                 |  |  |
|                                  | EBL       | 127                     | 63.6                     | E                       | 92.3                     | F                       | 21.9                         | C                           | 24                  | 122             |                 |  |  |
|                                  | EBT       | 10                      | 62.0                     | E                       |                          |                         |                              |                             | 24                  | 122             |                 |  |  |
|                                  | EBR       | 467                     | 100.8                    | F                       |                          |                         |                              |                             | 328                 | 867             |                 |  |  |
|                                  | WBL       | 79                      | 65.7                     | E                       | 68.2                     | E                       |                              |                             | 81                  | 361             |                 |  |  |
|                                  | WBT       | 199                     | 69.2                     | E                       |                          |                         |                              |                             | 81                  | 361             |                 |  |  |
|                                  | WBR       | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 96                  | 380             |                 |  |  |
|                                  | NBL       | 392                     | 27.6                     | C                       | 9.6                      | A                       |                              |                             | 44                  | 228             |                 |  |  |
|                                  | NBT       | 2164                    | 6.3                      | A                       |                          |                         |                              |                             | 44                  | 228             |                 |  |  |
|                                  | NBR       | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 38                  | 225             |                 |  |  |
|                                  | SBL       | 12                      | 62.9                     | E                       | 12.9                     | B                       |                              |                             | 92                  | 705             |                 |  |  |
|                                  | SBT       | 1986                    | 15.4                     | B                       |                          |                         |                              |                             | 92                  | 711             |                 |  |  |
|                                  | SBR       | 644                     | 4.0                      | A                       |                          |                         |                              |                             | 211                 | 919             |                 |  |  |

## **APPENDIX D: OPERATIONAL ANALYSIS METRICS - PM PEAK**

## 2025 No Build PM

| Intersection                 | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |  |
|------------------------------|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|--|
| Broad St & Roosevelt Blvd    | EBT      | 924                     | 5.6                      | A                       | 5.5                      | A                       | 13.9                         | B                           |                     | 14              | 207             |  |  |  |
|                              | EBR      | 145                     | 5.0                      | A                       |                          |                         |                              |                             |                     | 14              | 207             |  |  |  |
|                              | WBT      | 1295                    | 13.0                     | B                       |                          |                         |                              |                             |                     | 51              | 289             |  |  |  |
|                              | WBR      | 455                     | 19.0                     | B                       | 14.6                     | B                       |                              |                             |                     | 51              | 289             |  |  |  |
|                              | NBT      | 664                     | 26.1                     | C                       |                          |                         |                              |                             |                     | 55              | 264             |  |  |  |
|                              | NBR      | 2                       | 31.9                     | C                       | 26.1                     | C                       |                              |                             |                     | 55              | 264             |  |  |  |
|                              | SBT      | 489                     | 13.3                     | B                       |                          |                         |                              |                             |                     | 30              | 263             |  |  |  |
| Broad St & Bristol St        | EBT      | 921                     | 9.8                      | A                       | 9.8                      | A                       | 6.3                          | A                           |                     | 21              | 152             |  |  |  |
|                              | WBT      | 1294                    | 2.4                      | A                       | 2.4                      | A                       |                              |                             |                     | 12              | 108             |  |  |  |
|                              | NBL      | 21                      | 24.1                     | C                       | 22.9                     | C                       |                              |                             |                     | 11              | 104             |  |  |  |
|                              | NBR      | 49                      | 22.3                     | C                       |                          |                         |                              |                             |                     | 11              | 102             |  |  |  |
|                              | SBL      | 99                      | 12.0                     | B                       | 12.3                     | B                       |                              |                             |                     | 10              | 143             |  |  |  |
|                              | SBR      | 26                      | 13.5                     | B                       |                          |                         |                              |                             |                     | 10              | 143             |  |  |  |
| Roosevelt Blvd & Old York Rd | EBL      | 86                      | 27.9                     | C                       | 27.1                     | C                       | 22.1                         | C                           |                     | 74              | 335             |  |  |  |
|                              | EBT      | 431                     | 27.1                     | C                       |                          |                         |                              |                             |                     | 74              | 335             |  |  |  |
|                              | EBR      | 40                      | 25.0                     | C                       |                          |                         |                              |                             |                     | 78              | 344             |  |  |  |
|                              | WBL      | 3                       | 37.7                     | D                       | 25.1                     | C                       |                              |                             |                     | 101             | 439             |  |  |  |
|                              | WBT      | 579                     | 30.9                     | C                       |                          |                         |                              |                             |                     | 101             | 439             |  |  |  |
|                              | WBR      | 233                     | 10.3                     | B                       | 20.5                     | C                       |                              |                             |                     | 108             | 450             |  |  |  |
|                              | NBL      | 107                     | 14.4                     | B                       |                          |                         |                              |                             |                     | 295             | 72              |  |  |  |
|                              | NBT      | 998                     | 21.2                     | C                       |                          |                         |                              |                             |                     | 295             | 72              |  |  |  |
|                              | NBR      | 6                       | 12.1                     | B                       |                          |                         |                              |                             |                     | 295             | 76              |  |  |  |
|                              | SBL      | 1                       | 8.0                      | A                       | 16.8                     | B                       |                              |                             |                     | 85              | 20              |  |  |  |
|                              | SBT      | 607                     | 16.8                     | B                       |                          |                         |                              |                             |                     | 85              | 20              |  |  |  |
|                              | SBR      | 31                      | 17.2                     | B                       |                          |                         |                              |                             |                     | 85              | 24              |  |  |  |
| Roosevelt Blvd & 9th Street  | EGL1 (I) | 9                       | 5.9                      | A                       | 36.7                     | D                       | 19.7                         | B                           |                     | 17              | 126             |  |  |  |
|                              | EGL2 (O) | 24                      | 7.3                      | A                       |                          |                         |                              |                             |                     | 17              | 126             |  |  |  |
|                              | EBT      | 180                     | 39.5                     | D                       |                          |                         |                              |                             |                     | 498             | 57              |  |  |  |
|                              | EGR1 (I) | 99                      | 41.7                     | D                       |                          |                         |                              |                             |                     | 498             | 57              |  |  |  |
|                              | EGR2 (O) | 2                       | 33.4                     | C                       | 39.0                     | D                       |                              |                             |                     | 498             | 57              |  |  |  |
|                              | WBL1 (I) | 252                     | 6.4                      | A                       |                          |                         |                              |                             |                     | 30              | 243             |  |  |  |
|                              | WBL2 (O) | 53                      | 7.4                      | A                       |                          |                         |                              |                             |                     | 30              | 243             |  |  |  |
|                              | WBT      | 494                     | 57.6                     | E                       |                          |                         |                              |                             |                     | 145             | 558             |  |  |  |
|                              | WBR1 (I) | 23                      | 58.9                     | E                       | 16.8                     | B                       |                              |                             |                     | 145             | 558             |  |  |  |
|                              | WBR2 (O) | 20                      | 53.5                     | D                       |                          |                         |                              |                             |                     | 400             | 71              |  |  |  |
|                              | NBL      | 121                     | 20.5                     | C                       |                          |                         |                              |                             |                     | 71              | 433             |  |  |  |
|                              | NBIT     | 2235                    | 16.6                     | B                       | 15.5                     | B                       |                              |                             |                     | 88              | 299             |  |  |  |
|                              | NBOT     | 1946                    | 15.4                     | B                       |                          |                         |                              |                             |                     | 87              | 297             |  |  |  |
|                              | NBOR     | 348                     | 16.0                     | B                       |                          |                         |                              |                             |                     | 150             | 70              |  |  |  |
|                              | SBIL     | 117                     | 27.1                     | C                       | 19.5                     | B                       |                              |                             |                     | 70              | 573             |  |  |  |
|                              | SBIT     | 2057                    | 19.1                     | B                       |                          |                         |                              |                             |                     | 800             | 38              |  |  |  |
|                              | SBOT     | 998                     | 14.9                     | B                       | 15.0                     | B                       |                              |                             |                     | 800             | 313             |  |  |  |
|                              | SBOR     | 33                      | 18.8                     | B                       |                          |                         |                              |                             |                     | 800             | 30              |  |  |  |
| Roosevelt Blvd & 7th Street  | EGL1 (I) | 63                      | 0.7                      | A                       | 21.5                     | C                       | 21.0                         | C                           |                     | 515             | 11              |  |  |  |
|                              | EGL2 (O) | 289                     | 9.7                      | A                       |                          |                         |                              |                             |                     | 515             | 11              |  |  |  |
|                              | EBT      | 283                     | 38.0                     | D                       |                          |                         |                              |                             |                     | 57              | 300             |  |  |  |
|                              | EGR1 (I) | 3                       | 38.0                     | D                       |                          |                         |                              |                             |                     | 57              | 300             |  |  |  |
|                              | EGR2 (O) | 0                       | 0.0                      | A                       | 21.7                     | C                       |                              |                             |                     | 57              | 300             |  |  |  |
|                              | NBIT     | 2228                    | 21.7                     | C                       |                          |                         |                              |                             |                     | 950             | 102             |  |  |  |
|                              | NBOT     | 1985                    | 20.7                     | C                       |                          |                         |                              |                             |                     | 950             | 90              |  |  |  |
|                              | SBIL     | 67                      | 27.8                     | C                       | 24.1                     | C                       |                              |                             |                     | 81              | 589             |  |  |  |
|                              | SBIT     | 2162                    | 24.0                     | C                       |                          |                         |                              |                             |                     | 81              | 589             |  |  |  |
|                              | SBOT     | 1011                    | 16.2                     | B                       | 14.4                     | B                       |                              |                             |                     | 33              | 276             |  |  |  |
|                              | SBOR     | 201                     | 5.6                      | A                       |                          |                         |                              |                             |                     | 1               | 118             |  |  |  |
| Roosevelt Blvd & 5th Street  | EGL1 (I) | 180                     | 40.8                     | D                       | 42.0                     | D                       | 24.3                         | C                           |                     | 280             | 43              |  |  |  |
|                              | EGL2 (O) | 286                     | 42.9                     | D                       |                          |                         |                              |                             |                     | 280             | 111             |  |  |  |
|                              | EBR      | 93                      | 41.3                     | D                       |                          |                         |                              |                             |                     | 280             | 111             |  |  |  |
|                              | WBL      | 155                     | 24.7                     | C                       | 40.8                     | D                       |                              |                             |                     | 225             | 59              |  |  |  |
|                              | WBT      | 388                     | 47.2                     | D                       |                          |                         |                              |                             |                     | 225             | 96              |  |  |  |
|                              | WBR      | 2                       | 38.1                     | D                       | 24.2                     | C                       |                              |                             |                     | 225             | 96              |  |  |  |
|                              | NBOL     | 307                     | 30.6                     | C                       |                          |                         |                              |                             |                     | 490             | 107             |  |  |  |
|                              | NBOT     | 1946                    | 23.2                     | C                       |                          |                         |                              |                             |                     | 490             | 107             |  |  |  |
|                              | NBOR     | 0                       | 0.0                      | A                       | 8.4                      | A                       |                              |                             |                     | 490             | 107             |  |  |  |
|                              | SBOL     | 221                     | 10.0                     | B                       |                          |                         |                              |                             |                     | 27              | 240             |  |  |  |
|                              | SBOT     | 923                     | 8.0                      | A                       |                          |                         |                              |                             |                     | 27              | 240             |  |  |  |
|                              | SBOR     | 20                      | 10.1                     | B                       |                          |                         |                              |                             |                     | 27              | 240             |  |  |  |

## 2025 No Build PM

| Intersection                    | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |  |
|---------------------------------|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|--|
| Roosevelt Blvd & 4th-3rd Street | EBL1 (I) | 68                      | 13.4                     | B                       | 27.0                     | C                       | 33.8                         | C                           |                     | 14              | 170             |  |  |  |
|                                 | EBL2 (O) | 94                      | 9.3                      | A                       |                          |                         |                              |                             |                     | 14              | 170             |  |  |  |
|                                 | EBT      | 269                     | 35.4                     | D                       |                          |                         |                              |                             |                     | 53              | 282             |  |  |  |
|                                 | EBR1 (I) | 23                      | 32.7                     | C                       |                          |                         |                              |                             |                     | 53              | 282             |  |  |  |
|                                 | EBR2 (O) | 21                      | 35.4                     | D                       |                          |                         |                              |                             |                     | 53              | 282             |  |  |  |
|                                 | WBL1 (I) | 36                      | 4.4                      | A                       | 41.6                     | D                       |                              |                             |                     | 47              | 192             |  |  |  |
|                                 | WBL2 (O) | 150                     | 26.7                     | C                       |                          |                         |                              |                             |                     | 47              | 192             |  |  |  |
|                                 | WBT      | 283                     | 52.2                     | D                       |                          |                         |                              |                             |                     | 93              | 405             |  |  |  |
|                                 | WBR1 (I) | 10                      | 52.3                     | D                       |                          |                         |                              |                             |                     | 93              | 405             |  |  |  |
|                                 | WBR2 (O) | 69                      | 48.9                     | D                       | 72.2                     | E                       |                              |                             |                     | 93              | 405             |  |  |  |
|                                 | NBIL1    | 285                     | 327.4                    | F                       |                          |                         |                              |                             | 275                 | 734             | 1502            |  |  |  |
|                                 | NBIT     | 2008                    | 35.9                     | D                       |                          |                         |                              |                             | 734                 | 734             | 1502            |  |  |  |
|                                 | NBOT     | 2062                    | 6.8                      | A                       |                          | 6.9                     | A                            |                             |                     | 27              | 254             |  |  |  |
|                                 | NBOR     | 16                      | 11.5                     | B                       |                          |                         |                              |                             |                     | 27              | 254             |  |  |  |
|                                 | SBIL     | 82                      | 25.3                     | C                       | 26.3                     | C                       |                              |                             |                     | 114             | 622             |  |  |  |
|                                 | SBIT     | 2180                    | 26.4                     | C                       |                          |                         |                              |                             |                     | 114             | 622             |  |  |  |
|                                 | SBOT     | 990                     | 17.5                     | B                       |                          |                         |                              |                             |                     | 41              | 360             |  |  |  |
|                                 | SBOR     | 8                       | 20.1                     | C                       | 17.5                     | B                       |                              |                             |                     | 41              | 360             |  |  |  |
| Roosevelt Blvd & 2nd St Ped     | WBR      | 22                      | 6.5                      | A                       | 6.5                      | A                       | 3.9                          | A                           |                     | 1               | 36              |  |  |  |
|                                 | NBIT     | 2366                    | 2.3                      | A                       | 2.3                      | A                       |                              |                             |                     | 11              | 122             |  |  |  |
|                                 | NBOT     | 1931                    | 7.6                      | A                       | 7.6                      | A                       |                              |                             |                     | 23              | 461             |  |  |  |
|                                 | SBIT     | 2267                    | 3.2                      | A                       | 3.2                      | A                       |                              |                             |                     | 7               | 230             |  |  |  |
|                                 | SBOT     | 1158                    | 2.1                      | A                       | 2.1                      | A                       |                              |                             |                     | 1               | 113             |  |  |  |
| Roosevelt Blvd & Mascher St     | EBL1 (I) | 81                      | 2.1                      | A                       | 35.2                     | D                       | 15.2                         | B                           |                     | 20              | 173             |  |  |  |
|                                 | EBL2 (O) | 122                     | 14.2                     | B                       |                          |                         |                              |                             |                     | 20              | 173             |  |  |  |
|                                 | EBT      | 593                     | 41.9                     | D                       |                          |                         |                              |                             |                     | 102             | 377             |  |  |  |
|                                 | EBR1 (I) | 174                     | 42.5                     | D                       |                          |                         |                              |                             |                     | 102             | 377             |  |  |  |
|                                 | EBR2 (O) | 8                       | 41.2                     | D                       |                          |                         |                              |                             |                     | 102             | 377             |  |  |  |
|                                 | NBIT     | 2355                    | 19.1                     | B                       | 19.1                     | B                       |                              |                             | 580                 | 98              | 719             |  |  |  |
|                                 | NBOT     | 1812                    | 8.6                      | A                       | 8.9                      | A                       |                              |                             | 580                 | 43              | 197             |  |  |  |
|                                 | NBOR     | 74                      | 15.9                     | B                       | 10.8                     | B                       |                              |                             | 580                 | 43              | 197             |  |  |  |
|                                 | SBIL     | 68                      | 24.2                     | C                       |                          |                         |                              |                             |                     | 54              | 263             |  |  |  |
|                                 | SBIT     | 2089                    | 10.4                     | B                       |                          |                         |                              |                             |                     | 54              | 263             |  |  |  |
|                                 | SBOT     | 1168                    | 9.1                      | A                       | 9.1                      | A                       |                              |                             |                     | 26              | 186             |  |  |  |
| Roosevelt Blvd & Front St       | WBL1     | 61                      | 1.2                      | A                       | 8.8                      | A                       | 18.6                         | B                           |                     | 69              | 193             |  |  |  |
|                                 | WBL2     | 72                      | 3.4                      | A                       |                          |                         |                              |                             |                     | 69              | 193             |  |  |  |
|                                 | WBT      | 644                     | 9.5                      | A                       |                          |                         |                              |                             |                     | 69              | 193             |  |  |  |
|                                 | WBR1     | 14                      | 32.4                     | C                       |                          |                         |                              |                             |                     | 60              | 303             |  |  |  |
|                                 | WBR2     | 5                       | 32.7                     | C                       |                          |                         |                              |                             |                     | 60              | 303             |  |  |  |
|                                 | NBIL1    | 209                     | 25.7                     | C                       | 29.0                     | C                       |                              |                             | 380                 | 132             | 531             |  |  |  |
|                                 | NBIT     | 2219                    | 29.3                     | C                       | 8.9                      | A                       |                              |                             | 475                 | 132             | 531             |  |  |  |
|                                 | NBOT     | 1924                    | 8.9                      | A                       | 8.9                      | A                       |                              |                             | 475                 | 39              | 216             |  |  |  |
|                                 | SBIT     | 1902                    | 18.2                     | B                       | 18.2                     | B                       |                              |                             | 315                 | 72              | 446             |  |  |  |
|                                 | SBOT     | 1288                    | 19.9                     | B                       | 19.9                     | B                       |                              |                             | 350                 | 62              | 350             |  |  |  |
|                                 | SBOR     | 54                      | 19.8                     | B                       |                          |                         |                              |                             | 350                 | 62              | 350             |  |  |  |
| Roosevelt Blvd & Rising Sun Ave | EBL1 (I) | 36                      | 17.2                     | B                       | 46.3                     | D                       | 16.1                         | B                           |                     | 18              | 199             |  |  |  |
|                                 | EBL2 (O) | 17                      | 11.3                     | B                       |                          |                         |                              |                             |                     | 18              | 199             |  |  |  |
|                                 | EBT      | 178                     | 48.9                     | D                       |                          |                         |                              |                             |                     | 96              | 403             |  |  |  |
|                                 | EBR1 (I) | 138                     | 53.6                     | D                       |                          |                         |                              |                             |                     | 96              | 403             |  |  |  |
|                                 | EBR2 (O) | 55                      | 49.5                     | D                       |                          |                         |                              |                             |                     | 96              | 403             |  |  |  |
|                                 | WBL1 (I) | 16                      | 11.0                     | B                       | 25.7                     | C                       |                              |                             | 60                  | 84              | 223             |  |  |  |
|                                 | WBL2 (O) | 37                      | 31.7                     | C                       |                          |                         |                              |                             | 60                  | 84              | 223             |  |  |  |
|                                 | WBT      | 370                     | 25.8                     | C                       |                          |                         |                              |                             | 60                  | 141             | 351             |  |  |  |
|                                 | WBR1 (I) | 114                     | 25.8                     | C                       |                          |                         |                              |                             | 60                  | 141             | 351             |  |  |  |
|                                 | WBR2 (O) | 45                      | 25.4                     | C                       | 9.9                      | A                       |                              |                             | 60                  | 141             | 351             |  |  |  |
|                                 | NBIL1    | 235                     | 72.9                     | E                       |                          |                         |                              |                             | 205                 | 127             | 380             |  |  |  |
|                                 | NBIT     | 1988                    | 9.9                      | A                       |                          |                         |                              |                             | 245                 | 127             | 380             |  |  |  |
|                                 | NBOT     | 1832                    | 7.0                      | A                       | 7.0                      | A                       |                              |                             | 230                 | 3               | 240             |  |  |  |
|                                 | SBIL     | 149                     | 17.3                     | B                       | 17.5                     | B                       |                              |                             | 250                 | 49              | 290             |  |  |  |
|                                 | SBIT     | 1748                    | 17.6                     | B                       |                          |                         |                              |                             | 1235                | 49              | 290             |  |  |  |
|                                 | SBOT     | 1251                    | 12.2                     | B                       |                          |                         |                              |                             | 1180                | 36              | 279             |  |  |  |
|                                 | SBOR     | 46                      | 10.4                     | B                       | 12.1                     | B                       |                              |                             | 1180                | 36              | 279             |  |  |  |

## 2025 No Build PM

| Intersection                                       | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |  |  |
|--|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|--|--|
| Roosevelt Blvd & C Street                          | EBL1 (I) | 71                      | 13.8                     | B                       | 37.6                     | D                       | 21.6                         | C                           | 37                  | 205             |                 |  |  |  |  |
|  | EBL2 (O) | 153                     | 12.8                     | B                       |                          |                         |                              |                             |                     | 37              | 205             |  |  |  |  |
|  | EBT      | 376                     | 50.9                     | D                       |                          |                         |                              |                             |                     | 70              | 337             |  |  |  |  |
|  | EBR1 (I) | 25                      | 49.7                     | D                       |                          |                         |                              |                             |                     | 70              | 337             |  |  |  |  |
|  | EBR2 (O) | 18                      | 47.2                     | D                       |                          |                         |                              |                             |                     | 70              | 337             |  |  |  |  |
|  | WBL1 (I) | 32                      | 6.7                      | A                       | 49.5                     | D                       |                              |                             |                     | 8               | 87              |  |  |  |  |
|  | WBL2 (O) | 46                      | 17.1                     | B                       |                          |                         |                              |                             |                     | 8               | 87              |  |  |  |  |
|  | WBT      | 271                     | 55.0                     | D                       |                          |                         |                              |                             |                     | 108             | 447             |  |  |  |  |
|  | WBR1 (I) | 61                      | 64.3                     | E                       |                          |                         |                              |                             |                     | 108             | 447             |  |  |  |  |
|  | WBR2 (O) | 21                      | 72.7                     | E                       |                          |                         |                              |                             |                     | 108             | 447             |  |  |  |  |
|  | NBIL1    | 61                      | 21.8                     | C                       | 21.0                     | C                       |                              |                             | 1335                | 81              | 317             |  |  |  |  |
|  | NBIT     | 2079                    | 21.0                     | C                       |                          |                         |                              |                             | 1335                | 79              | 314             |  |  |  |  |
|  | NBOT     | 1869                    | 21.2                     | C                       |                          |                         |                              |                             | 1375                | 70              | 321             |  |  |  |  |
|  | NBOR     | 46                      | 11.6                     | B                       | 15.7                     | B                       |                              |                             | 1375                | 70              | 321             |  |  |  |  |
|  | SBIL     | 169                     | 29.6                     | C                       |                          |                         |                              |                             | 255                 | 18              | 183             |  |  |  |  |
|  | SBIT     | 1844                    | 14.4                     | B                       |                          |                         |                              |                             | 775                 | 37              | 528             |  |  |  |  |
|  | SBOT     | 1227                    | 15.8                     | B                       | 15.6                     | B                       |                              |                             | 785                 | 41              | 477             |  |  |  |  |
|  | SBOR     | 162                     | 14.4                     | B                       |                          |                         |                              |                             | 785                 | 41              | 477             |  |  |  |  |
| Roosevelt Blvd & Rorer St - D St                   | WBR      | 38                      | 2.5                      | A                       | 2.5                      | A                       | 5.8                          | A                           | 0                   | 38              |                 |  |  |  |  |
|  | NBIT     | 2200                    | 8.1                      | A                       | 8.1                      | A                       |                              |                             |                     | 680             | 28              |  |  |  |  |
|  | NBOT     | 2028                    | 5.9                      | A                       | 5.9                      | A                       |                              |                             |                     | 680             | 19              |  |  |  |  |
|  | NBOR     | 4                       | 9.3                      | A                       |                          |                         |                              |                             |                     | 680             | 19              |  |  |  |  |
|  | SBIT     | 2021                    | 5.9                      | A                       | 5.9                      | A                       |                              |                             |                     | 1150            | 15              |  |  |  |  |
|  | SBOT     | 1189                    | 1.5                      | A                       | 1.5                      | A                       |                              |                             |                     | 1160            | 9               |  |  |  |  |
| Roosevelt Blvd & F Street                          | EBL1 (I) | 100                     | 18.8                     | B                       | 47.0                     | D                       | 29.9                         | C                           | 28                  | 198             |                 |  |  |  |  |
|  | EBL2 (O) | 122                     | 19.9                     | B                       |                          |                         |                              |                             |                     | 28              | 198             |  |  |  |  |
|  | EBL3     | 15                      | 8.6                      | A                       |                          |                         |                              |                             |                     | 28              | 198             |  |  |  |  |
|  | EBT      | 357                     | 62.0                     | E                       |                          |                         |                              |                             |                     | 115             | 519             |  |  |  |  |
|  | EBR1 (I) | 99                      | 59.5                     | E                       | 47.7                     | D                       |                              |                             |                     | 115             | 519             |  |  |  |  |
|  | EBR2 (O) | 4                       | 60.3                     | E                       |                          |                         |                              |                             |                     | 115             | 519             |  |  |  |  |
|  | WBL1 (I) | 28                      | 5.5                      | A                       |                          |                         |                              |                             |                     | 43              | 172             |  |  |  |  |
|  | WBL2 (O) | 64                      | 17.1                     | B                       |                          |                         |                              |                             |                     | 43              | 172             |  |  |  |  |
|  | WBT      | 373                     | 55.9                     | E                       |                          |                         |                              |                             |                     | 116             | 477             |  |  |  |  |
|  | WBR1 (I) | 8                       | 53.8                     | D                       |                          |                         |                              |                             |                     | 116             | 477             |  |  |  |  |
|  | WBR2 (O) | 12                      | 54.1                     | D                       | 50.3                     | D                       |                              |                             |                     | 170             | 436             |  |  |  |  |
|  | NBIL1    | 244                     | 264.5                    | F                       |                          |                         |                              |                             |                     | 1275            | 316             |  |  |  |  |
|  | NBIT     | 1995                    | 24.1                     | C                       |                          |                         |                              |                             |                     | 1275            | 55              |  |  |  |  |
|  | NBOT     | 1919                    | 12.4                     | B                       | 12.3                     | B                       |                              |                             |                     | 1275            | 261             |  |  |  |  |
|  | NBOBR    | 1                       | 4.2                      | A                       |                          |                         |                              |                             |                     | 1275            | 261             |  |  |  |  |
|  | NBOR     | 36                      | 10.2                     | B                       |                          |                         |                              |                             |                     | 1050            | 93              |  |  |  |  |
|  | SBIL     | 186                     | 34.2                     | C                       | 22.0                     | C                       |                              |                             |                     | 1050            | 628             |  |  |  |  |
|  | SBIT     | 2018                    | 20.9                     | C                       |                          |                         |                              |                             |                     | 1050            | 628             |  |  |  |  |
|  | SBOT     | 1129                    | 17.5                     | B                       | 17.5                     | B                       |                              |                             |                     | 1000            | 37              |  |  |  |  |
|  | SBOR     | 61                      | 18.5                     | B                       |                          |                         |                              |                             |                     | 1000            | 366             |  |  |  |  |
| Roosevelt Blvd & Whitaker Ave (South) - Garland St | EBR      | 19                      | 0.9                      | A                       | 0.9                      | A                       | 27.8                         | D                           | 0                   | 7               |                 |  |  |  |  |
|  | WBR1 (I) | 432                     | 156.5                    | F                       | 144.0                    | F                       |                              |                             |                     | 351             | 941             |  |  |  |  |
|  | WBR2 (O) | 108                     | 93.6                     | F                       |                          |                         |                              |                             |                     | 351             | 941             |  |  |  |  |
|  | NBIT     | 2080                    | 25.3                     | C                       | 29.5                     | C                       |                              |                             |                     | 1080            | 102             |  |  |  |  |
|  | NBOT     | 1912                    | 34.0                     | C                       |                          |                         |                              |                             |                     | 1080            | 154             |  |  |  |  |
|  | NBOR     | 104                     | 32.3                     | C                       |                          |                         |                              |                             |                     | 1080            | 154             |  |  |  |  |
|  | SBU1 (I) | 51                      | 43.1                     | D                       | 48.4                     | D                       |                              |                             |                     | 47              | 199             |  |  |  |  |
|  | SBU2 (O) | 5                       | 46.5                     | D                       |                          |                         |                              |                             |                     | 47              | 199             |  |  |  |  |
|  | SBL      | 380                     | 49.2                     | D                       |                          |                         |                              |                             |                     | 320             | 47              |  |  |  |  |
|  | SBIT     | 2050                    | 3.9                      | A                       | 3.9                      | A                       | 3.0                          | A                           |                     | 450             | 13              |  |  |  |  |
|  | SBOT     | 1175                    | 3.0                      | A                       | 3.0                      | A                       |                              |                             |                     | 470             | 5               |  |  |  |  |
|  | SBOR     | 1                       | 0.9                      | A                       |                          |                         |                              |                             |                     | 470             | 118             |  |  |  |  |
| Roosevelt Blvd & Whitaker Ave (North) - Adams Ave  | EBL1 (I) | 191                     | 16.8                     | B                       | 20.7                     | C                       | 23.9                         | C                           | 29                  | 176             |                 |  |  |  |  |
|  | EBL2 (O) | 459                     | 7.7                      | A                       |                          |                         |                              |                             |                     | 29              | 176             |  |  |  |  |
|  | EBR1 (I) | 156                     | 60.8                     | E                       |                          |                         |                              |                             |                     | 49              | 258             |  |  |  |  |
|  | EBR2 (O) | 18                      | 45.6                     | D                       | 19.3                     | B                       |                              |                             |                     | 56              | 271             |  |  |  |  |
|  | NBIL     | 423                     | 19.4                     | B                       |                          |                         |                              |                             |                     | 245             | 363             |  |  |  |  |
|  | NBIT     | 2115                    | 19.3                     | B                       |                          |                         |                              |                             |                     | 265             | 435             |  |  |  |  |
|  | NBOT     | 2013                    | 13.0                     | B                       | 13.0                     | B                       |                              |                             |                     | 290             | 378             |  |  |  |  |
|  | SBIT     | 2329                    | 35.3                     | D                       | 35.3                     | D                       |                              |                             |                     | 780             | 164             |  |  |  |  |
|  | SBOT     | 1321                    | 30.0                     | C                       | 29.2                     | C                       |                              |                             |                     | 800             | 520             |  |  |  |  |
|  | SBOR     | 499                     | 27.0                     | C                       |                          |                         |                              |                             |                     | 800             | 520             |  |  |  |  |

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| Intersection                                | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |      |  |  |  |
|---|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|------|--|--|--|
| Roosevelt BLvd & Tower Blvd                 | EBC       | 165                     | 19.4                     | B                       | 19.4                     | B                       | 8.0                          | A                           |                     | 10              | 84              |      |  |  |  |
|   | NBIU1 (I) | 110                     | 51.2                     | D                       | 67.1                     | E                       |                              |                             |                     | 43              | 236             |      |  |  |  |
|   | NBIU2 (O) | 18                      | 51.2                     | D                       |                          |                         |                              |                             |                     | 43              | 235             |      |  |  |  |
|   | NBIL      | 197                     | 77.4                     | E                       | 3.1                      | A                       | 2.2                          | A                           | 320                 | 45              | 237             |      |  |  |  |
|   | SBIT      | 2221                    | 3.1                      | A                       |                          |                         |                              |                             | 580                 | 5               | 110             |      |  |  |  |
|   | SBOT      | 1640                    | 2.2                      | A                       |                          |                         |                              |                             | 580                 | 2               | 120             |      |  |  |  |
|   | SBOR      | 92                      | 2.3                      | A                       |                          |                         |                              |                             | 580                 | 1               | 120             |      |  |  |  |
| Roosevelt Blvd & Langdon St                 | EBL1 (I)  | 137                     | 15.9                     | B                       | 114.7                    | F                       | 44.8                         | D                           |                     | 11              | 203             |      |  |  |  |
|   | EBL2 (O)  | 204                     | 5.0                      | A                       |                          |                         |                              |                             |                     | 5               | 172             |      |  |  |  |
|   | EBT       | 344                     | 206.1                    | F                       |                          |                         |                              |                             | 200                 | 424             | 541             |      |  |  |  |
|   | EBR1 (I)  | 47                      | 206.8                    | F                       |                          |                         |                              |                             |                     | 424             | 541             |      |  |  |  |
|   | EBR2 (O)  | 1                       | 164.5                    | F                       | 35.2                     | D                       |                              |                             |                     | 424             | 541             |      |  |  |  |
|   | WBL1 (I)  | 35                      | 13.6                     | B                       |                          |                         |                              |                             |                     | 3               | 134             |      |  |  |  |
|   | WBL2 (O)  | 34                      | 10.3                     | B                       |                          |                         |                              |                             |                     | 2               | 125             |      |  |  |  |
|   | WBT       | 78                      | 50.2                     | D                       |                          |                         |                              |                             | 200                 | 29              | 199             |      |  |  |  |
|   | WBR1 (I)  | 22                      | 45.0                     | D                       |                          |                         |                              |                             |                     | 29              | 199             |      |  |  |  |
|   | WBR2 (O)  | 20                      | 45.1                     | D                       | 78.4                     | E                       | 10.3                         | B                           |                     | 29              | 199             |      |  |  |  |
|   | NBLU1 (I) | 29                      | 94.8                     | F                       |                          |                         |                              |                             |                     | 23              | 177             |      |  |  |  |
|   | NBLU2 (O) | 4                       | 95.6                     | F                       |                          |                         |                              |                             |                     | 23              | 177             |      |  |  |  |
|   | NBL       | 47                      | 111.9                    | F                       |                          |                         |                              |                             |                     | 190             | 23              | 177  |  |  |  |
|   | NBIT      | 1843                    | 77.3                     | E                       |                          |                         |                              |                             |                     | 1525            | 424             | 552  |  |  |  |
| Roosevelt Blvd & Summerdale Ave - Adams Ave | NBOT      | 2430                    | 60.2                     | E                       | 60.3                     | E                       | 5.4                          | A                           |                     | 1525            | 392             | 1278 |  |  |  |
|   | NBOR      | 9                       | 83.3                     | F                       |                          |                         |                              |                             |                     | 1480            | 392             | 1278 |  |  |  |
|   | SBLU1 (I) | 34                      | 85.0                     | F                       |                          |                         |                              |                             |                     |                 | 14              | 112  |  |  |  |
|   | SBLU2 (O) | 0                       | 6.9                      | A                       | 5.4                      | A                       |                              |                             |                     |                 | 14              | 112  |  |  |  |
|   | SBL       | 5                       | 66.7                     | E                       |                          |                         |                              |                             |                     | 220             | 14              | 112  |  |  |  |
|   | SBIT      | 2109                    | 5.4                      | A                       |                          |                         |                              |                             |                     | 400             | 20              | 131  |  |  |  |
|   | SBOT      | 1692                    | 10.3                     | B                       |                          |                         |                              |                             |                     | 415             | 40              | 319  |  |  |  |
|   | SBOR      | 350                     | 10.1                     | B                       | 28.8                     | C                       |                              |                             |                     | 415             | 39              | 318  |  |  |  |
|   | EBL1 (I)  | 4                       | 1.5                      | A                       |                          | 6.2                     | A                            |                             | 0                   | 17              |                 |      |  |  |  |
|   | EBL2 (O)  | 7                       | 2.7                      | A                       |                          |                         |                              |                             | 0                   | 31              |                 |      |  |  |  |
|   | EBT       | 222                     | 31.2                     | C                       |                          |                         |                              |                             | 1700                | 56              | 258             |      |  |  |  |
|   | EBR1 (I)  | 133                     | 33.6                     | C                       |                          |                         |                              |                             | 300                 | 56              | 258             |      |  |  |  |
|   | EBR2 (O)  | 244                     | 37.6                     | D                       |                          |                         |                              |                             | 300                 | 56              | 258             |      |  |  |  |
| Roosevelt Blvd & Pratt Street               | WBL1 (I)  | 71                      | 0.3                      | A                       | 33.8                     | C                       | 9.6                          | A                           | C                   | 730             | 4               | 97   |  |  |  |
|   | WBL2 (O)  | 436                     | 8.3                      | A                       |                          |                         |                              |                             |                     | 730             | 1               | 59   |  |  |  |
|   | WBT       | 215                     | 0.4                      | A                       |                          |                         |                              |                             |                     | 120             | 0               | 0    |  |  |  |
|   | WBR1 (I)  | 11                      | 59.6                     | E                       |                          |                         |                              |                             |                     | 730             | 114             | 406  |  |  |  |
|   | WBR2 (O)  | 4                       | 55.6                     | E                       |                          |                         |                              |                             |                     | 730             | 114             | 406  |  |  |  |
|   | NBL       | 314                     | 309.2                    | F                       | 25.3                     | C                       | 2.3                          | A                           | C                   | 315             | 484             | 572  |  |  |  |
|   | NBIT      | 1699                    | 25.3                     | C                       |                          |                         |                              |                             |                     | 450             | 88              | 306  |  |  |  |
|   | NBOT      | 2288                    | 33.5                     | C                       |                          |                         |                              |                             |                     | 450             | 235             | 591  |  |  |  |
|   | NBOR      | 370                     | 38.1                     | D                       | 34.1                     | C                       |                              |                             |                     | 450             | 3               | 239  |  |  |  |
|   | SBL       | 93                      | 95.7                     | F                       |                          |                         |                              |                             |                     | 125             | 52              | 168  |  |  |  |
|   | SBIT      | 2017                    | 2.3                      | A                       |                          |                         |                              |                             |                     | 1950            | 10              | 71   |  |  |  |
|   | SBOT      | 1801                    | 9.9                      | A                       |                          |                         |                              |                             |                     | 1950            | 43              | 175  |  |  |  |
|   | SBOR      | 68                      | 1.6                      | A                       | 17.6                     | B                       |                              |                             |                     | 1950            | 43              | 175  |  |  |  |

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| Intersection                                       | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |  |  |  |
|--|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|--|--|--|
| Roosevelt Blvd & Bridge Street                     | EBL1 (I) | 9                       | 7.5                      | A                       | 33.4                     | C                       | 17.1                         | B                           |                     | 15              | 117             |  |  |  |  |  |
|  | EBL2 (O) | 67                      | 26.7                     | C                       |                          |                         |                              |                             |                     | 15              | 117             |  |  |  |  |  |
|  | EBT      | 145                     | 36.5                     | D                       |                          |                         |                              |                             |                     | 40              | 227             |  |  |  |  |  |
|  | EBR1 (I) | 53                      | 37.1                     | D                       | 30.9                     | C                       |                              |                             |                     | 40              | 227             |  |  |  |  |  |
|  | EBR2 (O) | 27                      | 35.1                     | D                       |                          |                         |                              |                             |                     | 40              | 227             |  |  |  |  |  |
|  | WBL1 (I) | 15                      | 3.6                      | A                       |                          | A                       |                              |                             |                     | 81              | 176             |  |  |  |  |  |
|  | WBL2 (O) | 127                     | 29.0                     | C                       | 6.7                      |                         |                              |                             |                     | 81              | 176             |  |  |  |  |  |
|  | WBT      | 204                     | 32.7                     | C                       |                          |                         |                              |                             |                     | 62              | 263             |  |  |  |  |  |
|  | WBR1 (I) | 97                      | 33.6                     | C                       |                          |                         |                              |                             |                     | 62              | 263             |  |  |  |  |  |
|  | WBR2 (O) | 0                       | 0.0                      | A                       | 34.1                     | C                       |                              |                             |                     | 62              | 263             |  |  |  |  |  |
|  | NBIL1    | 194                     | 132.0                    | F                       |                          |                         |                              |                             |                     | 510             | 202             |  |  |  |  |  |
|  | NBIT     | 1702                    | 22.9                     | C                       |                          |                         |                              |                             |                     | 510             | 202             |  |  |  |  |  |
|  | NBOT     | 2222                    | 6.6                      | A                       | 7.0                      | A                       |                              |                             |                     | 33              | 175             |  |  |  |  |  |
|  | NBOR     | 37                      | 9.7                      | A                       |                          |                         |                              |                             |                     | 33              | 175             |  |  |  |  |  |
|  | SBIL     | 105                     | 14.3                     | B                       |                          |                         |                              |                             |                     | 9               | 108             |  |  |  |  |  |
|  | SBIT     | 1928                    | 6.6                      | A                       | 17.9                     | B                       |                              |                             |                     | 9               | 108             |  |  |  |  |  |
|  | SBOT     | 1178                    | 17.8                     | B                       |                          |                         |                              |                             |                     | 40              | 286             |  |  |  |  |  |
|  | SBOR     | 15                      | 20.6                     | C                       |                          |                         |                              |                             |                     | 40              | 286             |  |  |  |  |  |
| Roosevelt Blvd & Sanger St Ped                     | NBOT     | 2292                    | 10.8                     | B                       | 10.8                     | B                       | 8.4                          | A                           |                     | 14              | 331             |  |  |  |  |  |
|  | SBOT     | 1153                    | 3.8                      | A                       | 3.8                      | A                       |                              |                             |                     | 10              | 282             |  |  |  |  |  |
|  | SBOR     | 4                       | 2.8                      | A                       |                          |                         |                              |                             |                     | 10              | 282             |  |  |  |  |  |
| Roosevelt Blvd NB & Oxford Circle & Oxford Ave     | EBL      | 141                     | 19.8                     | B                       | 9.7                      | A                       | 22.8                         | C                           |                     | 13              | 112             |  |  |  |  |  |
|  | EBT      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 13              | 112             |  |  |  |  |  |
|  | EBR      | 437                     | 6.5                      | A                       |                          |                         |                              |                             |                     | 13              | 112             |  |  |  |  |  |
|  | WBR      | 425                     | 22.9                     | C                       | 22.9                     | C                       |                              |                             |                     | 39              | 434             |  |  |  |  |  |
|  | NBOT     | 2186                    | 24.5                     | C                       | 24.4                     | C                       |                              |                             |                     | 132             | 331             |  |  |  |  |  |
|  | NBOR     | 166                     | 23.4                     | C                       |                          |                         |                              |                             |                     | 132             | 331             |  |  |  |  |  |
| Roosevelt Blvd NB & Oxford Circle & Cheltenham Ave | NBOHR    | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 132             | 331             |  |  |  |  |  |
|  | WBR      | 74                      | 558.7                    | F                       | 558.7                    | F                       | 22.8                         | C                           |                     | 231             | 263             |  |  |  |  |  |
|  | NBOL     | 391                     | 4.1                      | A                       | 36.3                     | D                       |                              |                             |                     | 21              | 224             |  |  |  |  |  |
|  | NBOT     | 1937                    | 6.2                      | A                       |                          |                         |                              |                             |                     | 23              | 228             |  |  |  |  |  |
|  | NBT      | 421                     | 62.4                     | E                       |                          |                         |                              |                             |                     | 284             | 316             |  |  |  |  |  |
| Roosevelt Blvd SB & Oxford Circle                  | NBR      | 320                     | 2.1                      | A                       | 3.2                      | A                       | 22.8                         | C                           |                     | 5               | 213             |  |  |  |  |  |
|  | SBOL     | 155                     | 2.9                      | A                       |                          |                         |                              |                             |                     | 3               | 93              |  |  |  |  |  |
|  | SBOT     | 859                     | 3.2                      | A                       | 36.5                     | D                       |                              |                             |                     | 3               | 88              |  |  |  |  |  |
|  | SBT      | 554                     | 45.1                     | D                       |                          |                         |                              |                             |                     | 224             | 686             |  |  |  |  |  |
| Roosevelt Blvd SB & Oxford Circle & Castor Ave     | SBR      | 298                     | 20.5                     | C                       | 15.2                     | B                       |                              |                             |                     | 224             | 686             |  |  |  |  |  |
|  | EBR      | 408                     | 15.2                     | B                       |                          |                         |                              |                             |                     | 24              | 245             |  |  |  |  |  |
|  | WBL      | 84                      | 4.1                      | A                       |                          |                         |                              |                             |                     | 11              | 198             |  |  |  |  |  |
|  | WBT      | 307                     | 11.1                     | B                       | 11.0                     | B                       |                              |                             |                     | 11              | 198             |  |  |  |  |  |
|  | WBR      | 495                     | 12.1                     | B                       |                          |                         |                              |                             |                     | 22              | 250             |  |  |  |  |  |
|  | SBOT     | 930                     | 39.4                     | D                       | 38.7                     | D                       |                              |                             |                     | 425             | 74              |  |  |  |  |  |
|  | SBOR     | 49                      | 29.3                     | C                       |                          |                         |                              |                             |                     | 425             | 73              |  |  |  |  |  |
| Roosevelt Blvd & Large Street                      | SBOHR    | 13                      | 24.4                     | C                       |                          |                         |                              |                             |                     | 425             | 72              |  |  |  |  |  |
|  | EBL1 (I) | 47                      | 28.7                     | C                       | 33.7                     | C                       | 16.6                         | B                           |                     | 24              | 189             |  |  |  |  |  |
|  | EBL2 (O) | 98                      | 23.5                     | C                       |                          |                         |                              |                             |                     | 24              | 189             |  |  |  |  |  |
|  | EBT      | 231                     | 38.1                     | D                       |                          |                         |                              |                             |                     | 61              | 330             |  |  |  |  |  |
|  | EBR1 (I) | 77                      | 36.6                     | D                       | 22.0                     | C                       |                              |                             |                     | 61              | 330             |  |  |  |  |  |
|  | EBR2 (O) | 19                      | 32.8                     | C                       |                          |                         |                              |                             |                     | 61              | 330             |  |  |  |  |  |
|  | WBL1 (I) | 18                      | 2.4                      | A                       |                          |                         |                              |                             |                     | 56              | 188             |  |  |  |  |  |
|  | WBL2 (O) | 15                      | 3.0                      | A                       | 26.7                     | C                       |                              |                             |                     | 56              | 188             |  |  |  |  |  |
|  | WBT      | 189                     | 26.0                     | C                       |                          |                         |                              |                             |                     | 80              | 308             |  |  |  |  |  |
|  | WBR1 (I) | 40                      | 24.2                     | C                       |                          |                         |                              |                             |                     | 80              | 308             |  |  |  |  |  |
|  | WBR2 (O) | 66                      | 18.9                     | B                       | 2.8                      | A                       |                              |                             |                     | 80              | 308             |  |  |  |  |  |
|  | NBIL1    | 291                     | 115.5                    | F                       |                          |                         |                              |                             |                     | 181             | 547             |  |  |  |  |  |
|  | NBIT     | 1518                    | 9.7                      | A                       |                          |                         |                              |                             |                     | 23              | 205             |  |  |  |  |  |
|  | NBOT     | 1959                    | 2.8                      | A                       | 18.2                     | B                       |                              |                             |                     | 7               | 124             |  |  |  |  |  |
|  | SBIL     | 208                     | 23.9                     | C                       |                          |                         |                              |                             |                     | 53              | 545             |  |  |  |  |  |
|  | SBIT     | 1943                    | 17.6                     | B                       |                          |                         |                              |                             |                     | 51              | 538             |  |  |  |  |  |
|  | SBOT     | 964                     | 12.5                     | B                       | 12.1                     | B                       |                              |                             |                     | 20              | 246             |  |  |  |  |  |
|  | SBOR     | 59                      | 4.9                      | A                       |                          |                         |                              |                             |                     | 11              | 238             |  |  |  |  |  |

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| Intersection                      | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|-----------------------------------|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Devereaux Street | EBL1 (I) | 227                     | 2.3                      | A                       | 31.3                     | C                       | 14.2                         | B                           |                     | 4               | 104             |  |  |
|                                   | EBL2 (O) | 46                      | 27.3                     | C                       |                          |                         |                              |                             |                     | 4               | 104             |  |  |
|                                   | EBT      | 548                     | 43.3                     | D                       |                          |                         |                              |                             |                     | 76              | 412             |  |  |
|                                   | EBR1 (I) | 7                       | 37.8                     | D                       | 39.2                     | D                       |                              |                             |                     | 76              | 412             |  |  |
|                                   | EBR2 (O) | 9                       | 43.5                     | D                       |                          |                         |                              |                             |                     | 76              | 412             |  |  |
|                                   | WBL1 (I) | 84                      | 18.0                     | B                       |                          |                         |                              |                             | 570                 | 17              | 167             |  |  |
|                                   | WBL2 (O) | 96                      | 22.1                     | C                       | 9.6                      | A                       |                              |                             | 570                 | 17              | 167             |  |  |
|                                   | WBT      | 329                     | 49.6                     | D                       |                          |                         |                              |                             | 570                 | 54              | 205             |  |  |
|                                   | WBR1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 570                 | 54              | 205             |  |  |
|                                   | NBIL1    | 64                      | 32.9                     | C                       | 13.0                     | B                       |                              |                             |                     | 41              | 347             |  |  |
|                                   | NBIT     | 1550                    | 12.2                     | B                       |                          |                         |                              |                             |                     | 43              | 350             |  |  |
|                                   | NBOT     | 1895                    | 8.2                      | A                       |                          |                         |                              |                             |                     | 41              | 355             |  |  |
|                                   | NBOR     | 377                     | 16.7                     | B                       | 10.5                     | B                       |                              |                             |                     | 41              | 355             |  |  |
|                                   | SBIL     | 33                      | 13.6                     | B                       |                          |                         |                              |                             |                     | 31              | 267             |  |  |
|                                   | SBIT     | 2064                    | 10.4                     | B                       |                          |                         |                              |                             |                     | 31              | 267             |  |  |
|                                   | SBOT     | 911                     | 7.6                      | A                       | 7.7                      | A                       |                              |                             |                     | 11              | 173             |  |  |
|                                   | SBOR     | 41                      | 9.1                      | A                       |                          |                         |                              |                             |                     | 11              | 178             |  |  |
|                                   | SBOHR    | 77                      | 5                        | A                       |                          |                         |                              |                             |                     | 11              | 179             |  |  |
|                                   | SEBR     | 0                       | 0                        | A                       | 0.0                      | A                       |                              |                             |                     | 0               | 0               |  |  |
| Roosevelt Blvd & Bustleton Ave    | EBL1 (I) | 3                       | 23.2                     | C                       | 2.1                      | A                       | 23.3                         | C                           |                     | 20              | 172             |  |  |
|                                   | EBL2 (O) | 10                      | 10.2                     | B                       |                          |                         |                              |                             |                     | 20              | 172             |  |  |
|                                   | EBT      | 385                     | 1.9                      | A                       |                          |                         |                              |                             |                     | 0               | 49              |  |  |
|                                   | EBR1 (I) | 172                     | 1.8                      | A                       | 4.6                      | A                       |                              |                             |                     | 0               | 49              |  |  |
|                                   | EBR2 (O) | 67                      | 1.2                      | A                       |                          |                         |                              |                             |                     | 0               | 49              |  |  |
|                                   | WBL1 (I) | 0                       | 0.0                      | A                       | 68.0                     | E                       |                              |                             | 65                  | 70              | 206             |  |  |
|                                   | WBL2 (O) | 77                      | 21.6                     | C                       |                          |                         |                              |                             | 65                  | 70              | 206             |  |  |
|                                   | WBT      | 467                     | 2.8                      | A                       |                          |                         |                              |                             |                     | 0               | 90              |  |  |
|                                   | WBR1 (I) | 40                      | 0.9                      | A                       | 13.0                     | B                       |                              |                             |                     | 0               | 90              |  |  |
|                                   | WBR2 (O) | 74                      | 0.9                      | A                       |                          |                         |                              |                             |                     | 0               | 90              |  |  |
|                                   | NBIL1    | 359                     | 221.7                    | F                       |                          |                         |                              |                             | 200                 | 505             | 898             |  |  |
|                                   | NBIT     | 1231                    | 23.2                     | C                       | 16.3                     | B                       |                              |                             |                     | 283             | 833             |  |  |
|                                   | NBOT     | 1540                    | 16.3                     | B                       |                          |                         |                              |                             |                     | 61              | 178             |  |  |
|                                   | SBIL     | 162                     | 22.6                     | C                       |                          |                         |                              |                             |                     | 15              | 160             |  |  |
|                                   | SBIT     | 1919                    | 12.2                     | B                       | 8.2                      | B                       |                              |                             |                     | 56              | 236             |  |  |
|                                   | SBOT     | 876                     | 8.2                      | A                       |                          |                         |                              |                             |                     | 20              | 164             |  |  |
| Bustleton Ave & Robbins Street    | EBL      | 155                     | 4.8                      | A                       | 1.7                      | A                       | 11.2                         | B                           |                     | 4               | 177             |  |  |
|                                   | EBT      | 380                     | 0.4                      | A                       |                          |                         |                              |                             |                     | 5               | 185             |  |  |
|                                   | WBT      | 582                     | 21.0                     | C                       |                          |                         |                              |                             |                     | 38              | 261             |  |  |
|                                   | WBR      | 30                      | 20.5                     | C                       | 9.6                      | A                       |                              |                             |                     | 38              | 261             |  |  |
|                                   | NBL      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 29              | 121             |  |  |
|                                   | NBT      | 583                     | 9.6                      | A                       |                          |                         |                              |                             |                     | 29              | 121             |  |  |
| Bustleton Ave & Levick Street     | NBR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 29              | 121             |  |  |
|                                   | EBT      | 623                     | 37.4                     | D                       | 37.2                     | D                       | 15.0                         | B                           |                     | 66              | 317             |  |  |
|                                   | EBR      | 38                      | 34.0                     | C                       |                          |                         |                              |                             |                     | 66              | 317             |  |  |
|                                   | WBL      | 96                      | 7.0                      | A                       |                          |                         |                              |                             |                     | 8               | 163             |  |  |
|                                   | WBT      | 653                     | 1.5                      | A                       | 4.3                      | A                       |                              |                             |                     | 8               | 163             |  |  |
|                                   | SBL      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 19              | 105             |  |  |
|                                   | SBT      | 389                     | 4.2                      | A                       |                          |                         |                              |                             |                     | 19              | 105             |  |  |
| Roosevelt Blvd & Levick St        | SBR      | 88                      | 4.6                      | A                       |                          |                         |                              |                             |                     | 19              | 105             |  |  |
|                                   | WBL1 (I) | 591                     | 35.6                     | D                       | 36.2                     | D                       | 28.2                         | C                           |                     | 75              | 327             |  |  |
|                                   | WBL2 (O) | 487                     | 37.5                     | D                       |                          |                         |                              |                             |                     | 65              | 312             |  |  |
|                                   | WBR      | 31                      | 26.0                     | C                       |                          |                         |                              |                             |                     | 68              | 321             |  |  |
|                                   | NBIT     | 1264                    | 15.4                     | B                       | 15.4                     | B                       |                              |                             |                     | 40              | 370             |  |  |
|                                   | NBOT     | 1616                    | 18.8                     | B                       |                          |                         |                              |                             |                     | 94              | 550             |  |  |
|                                   | SBIT     | 1484                    | 43.4                     | D                       |                          |                         |                              |                             |                     | 136             | 530             |  |  |
|                                   | SBOT     | 869                     | 28.1                     | C                       | 28.1                     | C                       |                              |                             |                     | 49              | 313             |  |  |

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| Intersection                       | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|------------------------------------|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Haribson Ave      | EBL1 (I) | 79                      | 10.2                     | B                       | 26.7                     | C                       | 27.1                         | C                           |                     | 26              | 187             |  |  |
|                                    | EBL2 (O) | 9                       | 8.5                      | A                       |                          |                         |                              |                             |                     | 26              | 187             |  |  |
|                                    | EBT      | 679                     | 28.9                     | C                       |                          |                         |                              |                             |                     | 46              | 191             |  |  |
|                                    | EBR1 (I) | 4                       | 23.5                     | C                       | 30.5                     | C                       |                              |                             |                     | 46              | 191             |  |  |
|                                    | EBR2 (O) | 8                       | 29.9                     | C                       |                          |                         |                              |                             |                     | 46              | 191             |  |  |
|                                    | WBL1 (I) | 107                     | 28.2                     | C                       |                          |                         |                              |                             |                     | 26              | 163             |  |  |
|                                    | WBL2 (O) | 102                     | 9.4                      | A                       | 28.4                     | C                       |                              |                             |                     | 26              | 163             |  |  |
|                                    | WBT      | 731                     | 36.2                     | D                       |                          |                         |                              |                             |                     | 107             | 421             |  |  |
|                                    | WBR1 (I) | 107                     | 45.8                     | D                       |                          |                         |                              |                             |                     | 107             | 421             |  |  |
|                                    | WBR2 (O) | 361                     | 20.9                     | C                       | 27.2                     | C                       |                              |                             |                     | 3               | 191             |  |  |
|                                    | NBIL     | 97                      | 40.7                     | D                       |                          |                         |                              |                             |                     | 71              | 393             |  |  |
|                                    | NBIT     | 1202                    | 28.4                     | C                       |                          |                         |                              |                             |                     | 71              | 393             |  |  |
|                                    | NBOT     | 1466                    | 29.4                     | C                       | 28.1                     | C                       |                              |                             |                     | 151             | 368             |  |  |
|                                    | NBOR     | 152                     | 6.1                      | A                       |                          |                         |                              |                             |                     | 29              | 383             |  |  |
|                                    | SBIL     | 366                     | 66.2                     | E                       |                          |                         |                              |                             |                     | 124             | 438             |  |  |
|                                    | SBIT     | 1343                    | 17.8                     | B                       | 16.6                     | B                       |                              |                             |                     | 47              | 411             |  |  |
|                                    | SBOT     | 864                     | 16.7                     | B                       |                          |                         |                              |                             |                     | 46              | 387             |  |  |
|                                    | SBOR     | 10                      | 12.3                     | B                       |                          |                         |                              |                             |                     | 46              | 387             |  |  |
| Roosevelt Blvd & Unruh Ave Ped     | WBR      | 16                      | 1.0                      | A                       | 1.0                      | A                       | 4.8                          | A                           |                     | 0               | 27              |  |  |
|                                    | NBIT     | 1318                    | 2.9                      | A                       | 2.9                      | A                       |                              |                             |                     | 3               | 107             |  |  |
|                                    | NBOT     | 1766                    | 3.1                      | A                       | 7.2                      | A                       |                              |                             |                     | 9               | 267             |  |  |
|                                    | NBOR     | 138                     | 3.4                      | A                       |                          |                         |                              |                             |                     | 9               | 267             |  |  |
|                                    | SBIT     | 1720                    | 7.2                      | A                       |                          |                         |                              |                             |                     | 14              | 454             |  |  |
|                                    | SBOT     | 876                     | 6.6                      | A                       |                          |                         |                              |                             |                     | 12              | 357             |  |  |
| Roosevelt Blvd & Longshore Ave Ped | SBOR     | 76                      | 6.2                      | A                       | 6.6                      | A                       |                              |                             |                     | 12              | 357             |  |  |
|                                    | WBR      | 86                      | 5.6                      | A                       | 5.6                      | A                       | 5.6                          | A                           |                     | 2               | 65              |  |  |
|                                    | NBIT     | 1318                    | 2.9                      | A                       | 2.9                      | A                       |                              |                             |                     | 3               | 107             |  |  |
|                                    | NBOT     | 1739                    | 9.4                      | A                       | 4.4                      | A                       |                              |                             |                     | 15              | 245             |  |  |
|                                    | NBOR     | 49                      | 6.3                      | A                       |                          |                         |                              |                             |                     | 18              | 273             |  |  |
|                                    | EBR      | 10                      | 4.4                      | A                       |                          |                         |                              |                             |                     | 0               | 37              |  |  |
|                                    | SBIT     | 1727                    | 4.7                      | A                       | 4.7                      | A                       |                              |                             |                     | 14              | 426             |  |  |
| Roosevelt Blvd & Tyson Ave         | SBOT     | 925                     | 4.2                      | A                       | 4.2                      | A                       |                              |                             |                     | 13              | 315             |  |  |
|                                    | SBOR     | 5                       | 4.4                      | A                       |                          |                         |                              |                             |                     | 14              | 328             |  |  |
|                                    | EBL1 (I) | 152                     | 27.6                     | C                       | 46.7                     | D                       | 29.0                         | C                           |                     | 66              | 221             |  |  |
|                                    | EBL2 (O) | 25                      | 15.5                     | B                       |                          |                         |                              |                             |                     | 66              | 221             |  |  |
|                                    | EBT      | 514                     | 53.9                     | D                       |                          |                         |                              |                             |                     | 92              | 495             |  |  |
|                                    | EBR1 (I) | 21                      | 46.6                     | D                       | 37.4                     | D                       |                              |                             |                     | 92              | 495             |  |  |
|                                    | EBR2 (O) | 2                       | 40.0                     | D                       |                          |                         |                              |                             |                     | 92              | 495             |  |  |
|                                    | WBL1 (I) | 178                     | 14.8                     | B                       |                          |                         |                              |                             |                     | 35              | 196             |  |  |
|                                    | WBL2 (O) | 59                      | 11.6                     | B                       | 20.7                     | C                       |                              |                             |                     | 35              | 196             |  |  |
|                                    | WBT      | 611                     | 47.1                     | D                       |                          |                         |                              |                             |                     | 99              | 369             |  |  |
|                                    | WBR1 (I) | 52                      | 33.4                     | C                       |                          |                         |                              |                             |                     | 99              | 369             |  |  |
| Roosevelt Blvd & Friendship St Ped | WBR2 (O) | 49                      | 33.6                     | C                       | 23.0                     | C                       |                              |                             |                     | 99              | 369             |  |  |
|                                    | NBIL1    | 104                     | 30.5                     | C                       |                          |                         |                              |                             |                     | 54              | 418             |  |  |
|                                    | NBIT     | 1222                    | 19.9                     | B                       |                          |                         |                              |                             |                     | 54              | 418             |  |  |
|                                    | NBOT     | 1568                    | 22.7                     | C                       | 34.5                     | C                       |                              |                             |                     | 460             | 122             |  |  |
|                                    | NBOR     | 264                     | 24.6                     | C                       |                          |                         |                              |                             |                     | 460             | 122             |  |  |
| Roosevelt Blvd & Cottman Ave       | SBIL     | 243                     | 146.4                    | F                       | 20.0                     | B                       |                              |                             |                     | 790             | 231             |  |  |
|                                    | SBIT     | 1503                    | 16.4                     | B                       |                          |                         |                              |                             |                     | 790             | 231             |  |  |
|                                    | SBOT     | 853                     | 19.9                     | B                       |                          |                         |                              |                             |                     | 48              | 339             |  |  |
|                                    | SBOR     | 61                      | 20.7                     | C                       |                          |                         |                              |                             |                     | 48              | 339             |  |  |
|                                    | NBIT     | 1323                    | 3.1                      | A                       | 3.1                      | A                       | 5.5                          | A                           |                     | 3               | 198             |  |  |
| Roosevelt Blvd & Cottman Ave       | NBOT     | 1750                    | 4.7                      | A                       | 4.7                      | A                       |                              |                             |                     | 12              | 471             |  |  |
|                                    | SBIT     | 1763                    | 9.4                      | A                       | 9.4                      | A                       |                              |                             |                     | 9               | 533             |  |  |
|                                    | SBOT     | 902                     | 3.1                      | A                       | 3.1                      | A                       |                              |                             |                     | 5               | 184             |  |  |
|                                    | SBOR     | 0                       | 0.1                      | A                       |                          |                         |                              |                             |                     | 6               | 196             |  |  |
| Roosevelt Blvd & Cottman Ave       | EBL      | 286                     | 17.8                     | B                       | 27.2                     | C                       | 26.0                         | C                           |                     | 23              | 199             |  |  |
|                                    | EBT      | 843                     | 30.0                     | C                       |                          |                         |                              |                             |                     | 87              | 389             |  |  |
|                                    | EBR      | 47                      | 35.4                     | D                       |                          |                         |                              |                             |                     | 87              | 390             |  |  |
|                                    | WBL      | 299                     | 18.0                     | B                       | 26.2                     | C                       |                              |                             |                     | 23              | 218             |  |  |
|                                    | WBT      | 621                     | 29.4                     | C                       |                          |                         |                              |                             |                     | 61              | 290             |  |  |
|                                    | WBR      | 55                      | 34.4                     | C                       | 27.9                     | C                       |                              |                             |                     | 61              | 290             |  |  |
|                                    | NBL      | 489                     | 41.6                     | D                       |                          |                         |                              |                             |                     | 113             | 508             |  |  |
|                                    | NBT      | 954                     | 22.0                     | C                       |                          |                         |                              |                             |                     | 113             | 508             |  |  |
|                                    | NBR      | 175                     | 21.8                     | C                       | 20.2                     | C                       |                              |                             |                     | 113             | 508             |  |  |
|                                    | SBL      | 142                     | 17.7                     | B                       |                          |                         |                              |                             |                     | 48              | 294             |  |  |
|                                    | SBT      | 617                     | 20.0                     | B                       |                          |                         |                              |                             |                     | 48              | 294             |  |  |
|                                    | SBR      | 75                      | 26.9                     | C                       |                          |                         |                              |                             |                     | 48              | 294             |  |  |

## 2025 No Build PM

| Intersection                            | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|---|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Borbeck Ave - Ryan Ave | EBL1 (I)  | 29                      | 38.0                     | D                       | 35.0                     | C                       | 52.2                         | D                           |                     | 56              | 298             |  |  |
|   | EBL2 (O)  | 23                      | 38.6                     | D                       |                          |                         |                              |                             |                     | 56              | 298             |  |  |
|   | EBT       | 247                     | 34.4                     | C                       |                          |                         |                              |                             |                     | 56              | 298             |  |  |
|   | EBR1 (I)  | 20                      | 35.3                     | D                       |                          |                         |                              |                             |                     | 56              | 298             |  |  |
|   | EBR2 (O)  | 6                       | 26.9                     | C                       |                          |                         |                              |                             |                     | 56              | 298             |  |  |
|   | WBL1 (I)  | 14                      | 36.1                     | D                       | 34.3                     | C                       |                              |                             |                     | 56              | 344             |  |  |
|   | WBL2 (O)  | 54                      | 36.3                     | D                       |                          |                         |                              |                             |                     | 56              | 344             |  |  |
|   | WBT       | 256                     | 34.5                     | C                       |                          |                         |                              |                             |                     | 56              | 344             |  |  |
|   | WBR1 (I)  | 39                      | 29.8                     | C                       |                          |                         |                              |                             |                     | 56              | 344             |  |  |
|   | WBR2 (O)  | 8                       | 31.1                     | C                       |                          |                         |                              |                             |                     | 59              | 349             |  |  |
|   | NBIU1 (I) | 5                       | 560.3                    | F                       | 85.6                     | F                       |                              |                             | 340                 | 483             | 783             |  |  |
|   | NBIU2 (O) | 12                      | 578.1                    | F                       |                          |                         |                              |                             | 340                 | 483             | 783             |  |  |
|   | NBIL      | 99                      | 580.5                    | F                       |                          |                         |                              |                             | 340                 | 483             | 783             |  |  |
|   | NBIT      | 1236                    | 39.4                     | D                       | 33.7                     | C                       |                              |                             | 197                 | 666             |                 |  |  |
|   | NBOT      | 1045                    | 33.8                     | C                       |                          |                         |                              |                             |                     | 99              | 515             |  |  |
|   | NBOR      | 52                      | 31.9                     | C                       |                          |                         |                              |                             |                     | 99              | 515             |  |  |
|   | SBIU1 (I) | 0                       | 45.5                     | D                       |                          |                         |                              |                             | 315                 | 200             | 346             |  |  |
|   | SIU2 (O)  | 11                      | 268.9                    | F                       | 52.7                     | D                       |                              |                             | 315                 | 200             | 346             |  |  |
|   | SBIL      | 103                     | 260.1                    | F                       |                          |                         |                              |                             | 315                 | 200             | 346             |  |  |
|   | SBIT      | 1482                    | 36.8                     | D                       |                          |                         |                              |                             |                     | 111             | 364             |  |  |
|   | SBOT      | 974                     | 40.4                     | D                       | 39.8                     | D                       |                              |                             |                     | 121             | 387             |  |  |
|   | SBOR      | 97                      | 34.1                     | C                       |                          |                         |                              |                             |                     | 121             | 387             |  |  |
| Roosevelt Blvd & Rhawn St               | EBL1 (I)  | 69                      | 59.9                     | E                       | 50.7                     | D                       | 29.8                         | C                           |                     | 139             | 670             |  |  |
|   | EBL2 (O)  | 63                      | 57.0                     | E                       |                          |                         |                              |                             |                     | 139             | 670             |  |  |
|   | EBT       | 403                     | 48.9                     | D                       |                          |                         |                              |                             |                     | 139             | 670             |  |  |
|   | EBR1 (I)  | 60                      | 46.4                     | D                       |                          |                         |                              |                             |                     | 139             | 670             |  |  |
|   | EBR2 (O)  | 24                      | 48.9                     | D                       |                          |                         |                              |                             |                     | 139             | 670             |  |  |
|   | WBL1 (I)  | 45                      | 53.4                     | D                       | 43.1                     | D                       |                              |                             |                     | 78              | 284             |  |  |
|   | WBL2 (O)  | 58                      | 53.1                     | D                       |                          |                         |                              |                             |                     | 78              | 284             |  |  |
|   | WBT       | 346                     | 40.9                     | D                       |                          |                         |                              |                             |                     | 78              | 284             |  |  |
|   | WBR1 (I)  | 111                     | 41.5                     | D                       |                          |                         |                              |                             |                     | 78              | 284             |  |  |
|   | WBR2 (O)  | 20                      | 38.9                     | D                       | 9.7                      | A                       |                              |                             |                     | 78              | 284             |  |  |
|   | NBIU1 (I) | 4                       | 54.5                     | D                       |                          |                         |                              |                             | 37                  | 174             |                 |  |  |
|   | NBIU2 (O) | 1                       | 38.5                     | D                       |                          |                         |                              |                             | 37                  | 174             |                 |  |  |
|   | NBIL      | 73                      | 85.1                     | F                       |                          |                         |                              |                             | 37                  | 174             |                 |  |  |
|   | NBIT      | 1207                    | 5.0                      | A                       | 4.7                      | A                       |                              |                             |                     | 13              | 81              |  |  |
|   | NBOT      | 1060                    | 4.4                      | A                       |                          |                         |                              |                             |                     | 17              | 223             |  |  |
|   | NBOR      | 38                      | 11.0                     | B                       |                          |                         |                              |                             |                     | 18              | 225             |  |  |
|   | SBIU1 (I) | 0                       | 0.0                      | A                       | 64.3                     | E                       |                              |                             |                     | 350             | 439             |  |  |
|   | SIU2 (O)  | 21                      | 396.7                    | F                       |                          |                         |                              |                             |                     | 350             | 439             |  |  |
|   | SBIL      | 135                     | 416.8                    | F                       |                          |                         |                              |                             |                     | 350             | 439             |  |  |
|   | SBIT      | 1490                    | 27.7                     | C                       | 6.9                      | A                       |                              |                             |                     | 167             | 740             |  |  |
|   | SBOT      | 990                     | 6.9                      | A                       |                          |                         |                              |                             |                     | 29              | 212             |  |  |
|   | SBOR      | 46                      | 7.2                      | A                       |                          |                         |                              |                             |                     | 31              | 216             |  |  |
| Roosevelt Blvd & Holme Ave - Solly Ave  | EBL       | 92                      | 22.8                     | C                       | 45.8                     | D                       | 31.1                         | C                           |                     | 29              | 212             |  |  |
|   | EBT       | 401                     | 51.2                     | D                       |                          |                         |                              |                             |                     | 71              | 261             |  |  |
|   | EBR       | 17                      | 45.0                     | D                       |                          |                         |                              |                             |                     | 71              | 261             |  |  |
|   | WBL       | 301                     | 36.2                     | D                       | 29.1                     | C                       |                              |                             |                     | 48              | 293             |  |  |
|   | WBT       | 341                     | 24.2                     | C                       |                          |                         |                              |                             |                     | 39              | 285             |  |  |
|   | WBR       | 79                      | 23.3                     | C                       |                          |                         |                              |                             |                     | 4               | 158             |  |  |
|   | NBL       | 24                      | 26.2                     | C                       | 14.4                     | B                       |                              |                             |                     | 40              | 276             |  |  |
|   | NBT       | 696                     | 12.4                     | B                       |                          |                         |                              |                             |                     | 40              | 276             |  |  |
|   | NBR       | 325                     | 17.7                     | B                       |                          |                         |                              |                             |                     | 40              | 276             |  |  |
|   | SBL       | 194                     | 39.8                     | D                       | 43.7                     | D                       |                              |                             |                     | 103             | 441             |  |  |
|   | SBT       | 666                     | 44.9                     | D                       |                          |                         |                              |                             |                     | 103             | 441             |  |  |
|   | SBR       | 39                      | 40.9                     | D                       |                          |                         |                              |                             |                     | 103             | 441             |  |  |
| Roosevelt Blvd & Strahle St             | EBL1 (I)  | 198                     | 52.2                     | D                       | 50.6                     | D                       | 9.3                          | A                           |                     | 52              | 272             |  |  |
|   | EBR1 (I)  | 54                      | 46.5                     | D                       |                          |                         |                              |                             |                     | 52              | 272             |  |  |
|   | EBR2 (O)  | 16                      | 45.2                     | D                       |                          |                         |                              |                             |                     | 52              | 272             |  |  |
|   | WBR       | 32                      | 1.3                      | A                       | 1.3                      | A                       |                              |                             |                     | 0               | 31              |  |  |
|   | NBIU2 (O) | 59                      | 83.0                     | F                       |                          |                         |                              |                             |                     | 49              | 165             |  |  |
|   | NBIL      | 53                      | 87.4                     | F                       |                          |                         |                              |                             |                     | 49              | 165             |  |  |
|   | NBIT      | 1280                    | 6.0                      | A                       | 4.1                      | A                       |                              |                             |                     | 49              | 165             |  |  |
|   | NBOT      | 910                     | 4.1                      | A                       |                          |                         |                              |                             |                     | 2               | 215             |  |  |
|   | NBOR      | 10                      | 3.2                      | A                       |                          |                         |                              |                             |                     | 19              | 175             |  |  |
|   | SBT       | 1602                    | 3.1                      | A                       | 3.1                      | A                       |                              |                             |                     | 8               | 108             |  |  |
|   | SBOT      | 814                     | 8.7                      | A                       |                          |                         |                              |                             |                     | 15              | 161             |  |  |
|   | SBOR      | 80                      | 12.7                     | B                       | 9.0                      | A                       |                              |                             |                     | 14              | 161             |  |  |

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| Intersection                 | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |     |  |  |
|------------------------------|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|-----|--|--|
| Roosevelt Blvd & Woodward St | EBL1 (I)  | 23                      | 56.8                     | E                       | 50.2                     | D                       | 36.4                         | D                           |                     | 124             | 433             |     |  |  |
|                              | EBL2 (O)  | 95                      | 50.4                     | D                       |                          |                         |                              |                             |                     | 124             | 433             |     |  |  |
|                              | EBT       | 71                      | 47.3                     | D                       |                          |                         |                              |                             |                     | 124             | 433             |     |  |  |
|                              | EBR1 (I)  | 42                      | 51.6                     | D                       |                          |                         |                              |                             |                     | 124             | 433             |     |  |  |
|                              | EBR2 (O)  | 2                       | 45.3                     | D                       |                          |                         |                              |                             |                     | 124             | 433             |     |  |  |
|                              | WBL1 (I)  | 21                      | 35.1                     | D                       | 37.8                     | D                       |                              |                             | 230                 | 86              | 347             |     |  |  |
|                              | WBL2 (O)  | 74                      | 40.2                     | D                       |                          |                         |                              |                             | 230                 | 86              | 347             |     |  |  |
|                              | WBT       | 91                      | 36.2                     | D                       |                          |                         |                              |                             | 230                 | 86              | 347             |     |  |  |
|                              | WBR1 (I)  | 8                       | 43.8                     | D                       |                          |                         |                              |                             | 230                 | 86              | 347             |     |  |  |
|                              | WBR2 (O)  | 8                       | 33.4                     | C                       | 18.4                     | B                       |                              |                             | 230                 | 86              | 347             |     |  |  |
|                              | NBIU1 (I) | 5                       | 88.3                     | F                       |                          |                         |                              |                             |                     | 75              | 283             |     |  |  |
|                              | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 0               | 0               |     |  |  |
|                              | NBIL      | 125                     | 87.3                     | F                       |                          |                         |                              |                             |                     | 75              | 283             |     |  |  |
|                              | NBIT      | 1334                    | 11.6                     | B                       |                          |                         |                              |                             |                     | 29              | 230             |     |  |  |
|                              | NBOT      | 806                     | 14.5                     | B                       | 14.6                     | B                       |                              |                             |                     | 27              | 247             |     |  |  |
|                              | NBOR      | 28                      | 16.8                     | B                       |                          |                         |                              |                             |                     | 27              | 247             |     |  |  |
|                              | SBIU1 (I) | 0                       | 0.0                      | A                       |                          | 55.1                    | E                            |                             |                     | 220             | 39              | 190 |  |  |
|                              | SIU2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 220                 | 0               | 0               |     |  |  |
|                              | SBIL      | 20                      | 55.2                     | E                       | 51.2                     |                         |                              |                             |                     | 220             | 39              | 190 |  |  |
|                              | SBIT      | 1388                    | 55.1                     | E                       |                          |                         |                              |                             |                     | 159             | 484             |     |  |  |
|                              | SBOT      | 942                     | 51.0                     | D                       | D                        |                         |                              |                             | 136                 | 461             |                 |     |  |  |
|                              | SBOR      | 69                      | 53.3                     | D                       |                          | 136                     | 461                          |                             |                     |                 |                 |     |  |  |
| Roosevelt Blvd & Welsh Rd    | EBL1 (I)  | 14                      | 49.8                     | D                       | 43.6                     | D                       | 23.9                         | C                           |                     | 84              | 460             |     |  |  |
|                              | EBL2 (O)  | 49                      | 48.6                     | D                       |                          |                         |                              |                             |                     | 84              | 460             |     |  |  |
|                              | EBT       | 390                     | 42.7                     | D                       |                          |                         |                              |                             |                     | 84              | 460             |     |  |  |
|                              | EBR1 (I)  | 117                     | 44.7                     | D                       |                          |                         |                              |                             |                     | 84              | 460             |     |  |  |
|                              | EBR2 (O)  | 23                      | 40.7                     | D                       |                          |                         |                              |                             |                     | 84              | 460             |     |  |  |
|                              | WBL1 (I)  | 45                      | 69.3                     | E                       | 49.4                     | D                       |                              |                             |                     | 83              | 337             |     |  |  |
|                              | WBL2 (O)  | 118                     | 67.3                     | E                       |                          |                         |                              |                             | 83                  | 337             |                 |     |  |  |
|                              | WBT       | 346                     | 42.0                     | D                       |                          |                         |                              |                             | 83                  | 337             |                 |     |  |  |
|                              | WBR1 (I)  | 38                      | 42.3                     | D                       |                          |                         |                              |                             | 83                  | 337             |                 |     |  |  |
|                              | WBR2 (O)  | 30                      | 43.6                     | D                       | 27.4                     | C                       |                              |                             |                     | 83              | 337             |     |  |  |
|                              | NBIU1 (I) | 13                      | 85.2                     | F                       |                          |                         |                              |                             | 0                   | 0               |                 |     |  |  |
|                              | NBIU2 (O) | 9                       | 85.0                     | F                       |                          |                         |                              |                             | 0                   | 0               |                 |     |  |  |
|                              | NBIL      | 214                     | 86.2                     | F                       |                          |                         |                              |                             | 125                 | 338             |                 |     |  |  |
|                              | NBIT      | 1124                    | 15.0                     | B                       |                          |                         |                              |                             | 32                  | 211             |                 |     |  |  |
|                              | NBOT      | 864                     | 18.1                     | B                       | 18.0                     | B                       |                              |                             |                     | 42              | 266             |     |  |  |
|                              | NBOR      | 73                      | 17.8                     | B                       |                          |                         |                              |                             | 42                  | 266             |                 |     |  |  |
|                              | SIU2 (O)  | 10                      | 99.1                     | F                       |                          | 13.9                    |                              |                             |                     | 50              | 197             |     |  |  |
|                              | SBIL      | 120                     | 71.8                     | E                       |                          |                         |                              |                             | 50                  | 197             |                 |     |  |  |
|                              | SBIT      | 1251                    | 7.6                      | A                       | 11.6                     | B                       |                              |                             |                     | 18              | 128             |     |  |  |
|                              | SBOT      | 926                     | 11.3                     | B                       |                          |                         |                              |                             | 47                  | 186             |                 |     |  |  |
| Roosevelt Blvd & Goodnow St  | SBOR      | 43                      | 19.4                     | B                       |                          |                         |                              |                             | 47                  | 186             |                 |     |  |  |
|                              | EBL1 (I)  | 28                      | 34.0                     | C                       | 33.2                     | C                       | 31.8                         | C                           |                     | 18              | 133             |     |  |  |
|                              | EBL2 (O)  | 61                      | 35.6                     | D                       |                          |                         |                              |                             |                     | 18              | 133             |     |  |  |
|                              | EBT       | 38                      | 31.5                     | C                       |                          |                         |                              |                             |                     | 18              | 133             |     |  |  |
|                              | EBR1 (I)  | 23                      | 30.5                     | C                       |                          |                         |                              |                             |                     | 18              | 133             |     |  |  |
|                              | EBR2 (O)  | 7                       | 27.1                     | C                       | 31.4                     | C                       |                              |                             |                     | 18              | 133             |     |  |  |
|                              | WBL1 (I)  | 22                      | 36.5                     | D                       |                          |                         |                              |                             | 23                  | 143             |                 |     |  |  |
|                              | WBL2 (O)  | 62                      | 31.7                     | C                       |                          |                         |                              |                             | 23                  | 143             |                 |     |  |  |
|                              | WBT       | 44                      | 30.1                     | C                       |                          |                         |                              |                             | 23                  | 143             |                 |     |  |  |
|                              | WBR1 (I)  | 40                      | 30.7                     | C                       | 22.9                     | C                       |                              |                             |                     | 23              | 143             |     |  |  |
|                              | WBR2 (O)  | 57                      | 30.7                     | C                       |                          |                         |                              |                             | 22                  | 145             |                 |     |  |  |
|                              | NBIU1 (I) | 15                      | 61.1                     | E                       |                          |                         |                              |                             | 19                  | 113             |                 |     |  |  |
|                              | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 19                  | 113             |                 |     |  |  |
|                              | NBIL      | 49                      | 61.8                     | E                       |                          |                         |                              |                             | 19                  | 113             |                 |     |  |  |
|                              | NBIT      | 1107                    | 20.7                     | C                       | 18.7                     | B                       |                              |                             |                     | 45              | 222             |     |  |  |
|                              | NBOT      | 889                     | 18.8                     | B                       |                          |                         |                              |                             | 51                  | 236             |                 |     |  |  |
|                              | NBOR      | 61                      | 17.6                     | B                       |                          |                         |                              |                             | 51                  | 236             |                 |     |  |  |
|                              | SBIU1 (I) | 0                       | 27.5                     | C                       | 43.7                     | D                       |                              |                             |                     | 43              | 217             |     |  |  |
|                              | SIU2 (O)  | 16                      | 73.3                     | E                       |                          |                         |                              |                             | 43                  | 217             |                 |     |  |  |
|                              | SBIL      | 98                      | 78.0                     | E                       |                          |                         |                              |                             | 220                 | 43              | 217             |     |  |  |
|                              | SBIT      | 1391                    | 41.0                     | D                       |                          |                         |                              |                             | 113                 | 598             |                 |     |  |  |
|                              | SBOT      | 828                     | 37.7                     | D                       | 37.2                     | D                       |                              |                             |                     | 84              | 436             |     |  |  |
|                              | SBOR      | 62                      | 31.4                     | C                       |                          |                         |                              |                             |                     | 83              | 436             |     |  |  |

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| Intersection                               | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|--|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Grant Ave                 | EBL1 (I)  | 25                      | 45.7                     | D                       | 35.0                     | C                       | 35.7                         | D                           |                     | 15              | 126             |  |  |
|  | EBL2 (O)  | 86                      | 52.0                     | D                       |                          |                         |                              |                             |                     | 15              | 126             |  |  |
|  | EBT       | 897                     | 32.9                     | C                       |                          |                         |                              |                             |                     | 91              | 407             |  |  |
|  | EBR1 (I)  | 72                      | 37.7                     | D                       |                          |                         |                              |                             |                     | 91              | 407             |  |  |
|  | EBR2 (O)  | 20                      | 33.9                     | C                       |                          |                         |                              |                             |                     | 91              | 407             |  |  |
|  | WBL1 (I)  | 62                      | 58.1                     | E                       | 36.8                     | D                       |                              |                             |                     | 36              | 237             |  |  |
|  | WBL2 (O)  | 130                     | 59.2                     | E                       |                          |                         |                              |                             |                     | 36              | 237             |  |  |
|  | WBT       | 1030                    | 33.5                     | C                       |                          |                         |                              |                             |                     | 95              | 452             |  |  |
|  | WBR1 (I)  | 128                     | 31.3                     | C                       |                          |                         |                              |                             |                     | 95              | 452             |  |  |
|  | WBR2 (O)  | 43                      | 32.7                     | C                       |                          |                         |                              |                             |                     | 95              | 452             |  |  |
|  | NBIU1 (I) | 15                      | 79.4                     | E                       | 24.1                     | C                       |                              |                             |                     | 67              | 235             |  |  |
|  | NBIU2 (O) | 10                      | 77.3                     | E                       |                          |                         |                              |                             |                     | 67              | 235             |  |  |
|  | NBIL      | 131                     | 79.5                     | E                       |                          |                         |                              |                             |                     | 67              | 235             |  |  |
|  | NBIT      | 1043                    | 15.9                     | B                       | 26.4                     | C                       |                              |                             |                     | 32              | 244             |  |  |
|  | NBOT      | 829                     | 24.8                     | C                       |                          |                         |                              |                             |                     | 62              | 345             |  |  |
|  | NBOR      | 176                     | 33.7                     | C                       |                          |                         |                              |                             |                     | 62              | 346             |  |  |
|  | SBIU1 (I) | 2                       | 52.9                     | D                       | 44.3                     | D                       |                              |                             |                     | 136             | 432             |  |  |
|  | SIU2 (O)  | 31                      | 45.7                     | D                       |                          |                         |                              |                             |                     | 136             | 432             |  |  |
|  | SBIL      | 368                     | 53.3                     | D                       |                          |                         |                              |                             |                     | 136             | 432             |  |  |
|  | SBIT      | 1341                    | 41.8                     | D                       | 46.5                     | D                       |                              |                             |                     | 136             | 432             |  |  |
|  | SBOT      | 650                     | 43.5                     | D                       |                          |                         |                              |                             |                     | 106             | 398             |  |  |
|  | SBOR      | 63                      | 77.1                     | E                       |                          |                         |                              |                             |                     | 105             | 398             |  |  |
| Roosevelt Blvd & Whitman Plaza - Fulmer St | EBR       | 13                      | 1.8                      | A                       | 1.8                      | A                       | 14.8                         | B                           |                     | 0               | 33              |  |  |
|  | WBL       | 178                     | 31.1                     | C                       | 32.0                     | C                       |                              |                             |                     | 26              | 144             |  |  |
|  | WBR1 (I)  | 93                      | 34.0                     | C                       |                          |                         |                              |                             |                     | 26              | 144             |  |  |
|  | WBR2 (O)  | 12                      | 29.7                     | C                       |                          |                         |                              |                             |                     | 26              | 144             |  |  |
|  | NBIU      | 22                      | 4.1                      | A                       | 6.8                      | A                       |                              |                             |                     | 18              | 99              |  |  |
|  | NBIT      | 1174                    | 6.9                      | A                       |                          |                         |                              |                             |                     | 18              | 99              |  |  |
|  | NBOT      | 790                     | 7.3                      | A                       |                          |                         |                              |                             |                     | 15              | 168             |  |  |
|  | NBOR      | 198                     | 7.9                      | A                       | 7.4                      | A                       |                              |                             |                     | 11              | 169             |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 49              | 213             |  |  |
|  | SBIU2 (O) | 42                      | 60.6                     | E                       |                          |                         |                              |                             |                     | 49              | 213             |  |  |
|  | SBIL      | 204                     | 63.5                     | E                       | 20.6                     | C                       |                              |                             |                     | 49              | 213             |  |  |
|  | SBIT      | 1443                    | 13.3                     | B                       |                          |                         |                              |                             |                     | 40              | 311             |  |  |
|  | SBOT      | 788                     | 17.9                     | B                       |                          |                         |                              |                             |                     | 35              | 276             |  |  |
|  | SBOR      | 3                       | 21.9                     | C                       | 17.9                     | B                       |                              |                             |                     | 35              | 276             |  |  |
| Roosevelt Blvd & Lott Street               | EBL1 (I)  | 65                      | 29.4                     | C                       | 32.3                     | C                       | 18.3                         | B                           |                     | 22              | 145             |  |  |
|  | EBR1 (I)  | 107                     | 33.8                     | C                       |                          |                         |                              |                             |                     | 22              | 145             |  |  |
|  | EBR2 (O)  | 7                       | 35.0                     | C                       |                          |                         |                              |                             |                     | 22              | 145             |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       | 7.8                      | A                       |                              |                             |                     | 28              | 126             |  |  |
|  | NBIU2 (O) | 4                       | 44.7                     | D                       |                          |                         |                              |                             |                     | 28              | 126             |  |  |
|  | NBIL      | 93                      | 56.0                     | E                       |                          |                         |                              |                             |                     | 28              | 126             |  |  |
|  | NBIT      | 1170                    | 3.8                      | A                       | 1.5                      | A                       |                              |                             |                     | 10              | 79              |  |  |
|  | NBOT      | 844                     | 1.5                      | A                       |                          |                         |                              |                             |                     | 3               | 120             |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 119             | 573             |  |  |
|  | SBIT      | 1579                    | 29.9                     | C                       | 29.9                     | C                       |                              |                             |                     | 119             | 573             |  |  |
|  | SBOT      | 781                     | 26.1                     | C                       |                          |                         |                              |                             |                     | 61              | 358             |  |  |
|  | SBOR      | 32                      | 30.0                     | C                       |                          |                         |                              |                             |                     | 61              | 358             |  |  |
| Roosevelt Blvd & Bowler St Ped             | EBR       | 37                      | 4.5                      | A                       | 4.5                      | A                       | 11.3                         | B                           |                     | 1               | 59              |  |  |
|  | NBIT      | 1239                    | 11.6                     | B                       | 11.6                     | B                       |                              |                             |                     | 27              | 293             |  |  |
|  | NBOT      | 923                     | 7.3                      | A                       | 7.3                      | A                       |                              |                             |                     | 27              | 245             |  |  |
|  | SBIT      | 1582                    | 12.9                     | B                       | 12.9                     | B                       |                              |                             |                     | 34              | 426             |  |  |
|  | SBOT      | 776                     | 12.3                     | B                       | 12.3                     | B                       |                              |                             |                     | 24              | 284             |  |  |
|  | SBOR      | 1                       | 2.8                      | A                       |                          |                         |                              |                             |                     | 24              | 284             |  |  |
| Roosevelt Blvd & Conwell Ave               | EBL1 (I)  | 33                      | 54.0                     | D                       | 54.6                     | D                       | 10.6                         | B                           |                     | 28              | 165             |  |  |
|  | EBR1 (I)  | 56                      | 54.7                     | D                       |                          |                         |                              |                             |                     | 28              | 165             |  |  |
|  | EBR2 (O)  | 7                       | 57.6                     | E                       |                          |                         |                              |                             |                     | 28              | 165             |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       | 12.1                     | B                       |                              |                             |                     | 24              | 178             |  |  |
|  | NBIU2 (O) | 0                       | 8.6                      | A                       |                          |                         |                              |                             |                     | 24              | 178             |  |  |
|  | NBIL      | 119                     | 41.7                     | D                       |                          |                         |                              |                             |                     | 24              | 178             |  |  |
|  | NBIT      | 1119                    | 8.9                      | A                       | 9.4                      | A                       |                              |                             |                     | 11              | 243             |  |  |
|  | NBOT      | 1022                    | 9.4                      | A                       |                          |                         |                              |                             |                     | 14              | 316             |  |  |
|  | SBIU1 (I) | 0                       | 1.2                      | A                       |                          |                         |                              |                             |                     | 20              | 266             |  |  |
|  | SBIT      | 1526                    | 10.5                     | B                       | 10.5                     | B                       |                              |                             |                     | 20              | 266             |  |  |
|  | SBOT      | 770                     | 5.2                      | A                       |                          |                         |                              |                             |                     | 14              | 174             |  |  |
|  | SBOR      | 38                      | 4.0                      | A                       |                          |                         |                              |                             |                     | 11              | 174             |  |  |

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| Intersection                       | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|------------------------------------|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Red Lion Rd       | EBL1 (I)  | 23                      | 62.7                     | E                       | 54.6                     | D                       | 37.0                         | D                           | 270                 | 192             | 587             |  |  |
|                                    | EBL2 (O)  | 58                      | 58.2                     | E                       |                          |                         |                              |                             | 270                 | 192             | 587             |  |  |
|                                    | EBT       | 631                     | 51.5                     | D                       |                          |                         |                              |                             | 192                 | 587             |                 |  |  |
|                                    | EBR1 (I)  | 290                     | 59.6                     | E                       |                          |                         |                              |                             | 192                 | 587             |                 |  |  |
|                                    | EBR2 (O)  | 39                      | 58.1                     | E                       |                          |                         |                              |                             | 192                 | 587             |                 |  |  |
|                                    | WBL1 (I)  | 49                      | 56.8                     | E                       | 44.5                     | D                       |                              |                             | 99                  | 399             |                 |  |  |
|                                    | WBL2 (O)  | 90                      | 60.7                     | E                       |                          |                         |                              |                             | 99                  | 399             |                 |  |  |
|                                    | WBT       | 445                     | 40.3                     | D                       |                          |                         |                              |                             | 99                  | 399             |                 |  |  |
|                                    | WBR1 (I)  | 15                      | 43.4                     | D                       |                          |                         |                              |                             | 99                  | 399             |                 |  |  |
|                                    | WBR2 (O)  | 23                      | 36.9                     | D                       |                          |                         |                              |                             | 99                  | 399             |                 |  |  |
|                                    | NBIU1 (I) | 4                       | 55.1                     | E                       | 35.9                     | D                       |                              |                             | 80                  | 347             |                 |  |  |
|                                    | NBIU2 (O) | 21                      | 49.8                     | D                       |                          |                         |                              |                             | 80                  | 347             |                 |  |  |
|                                    | NBIL      | 236                     | 57.3                     | E                       |                          |                         |                              |                             | 80                  | 347             |                 |  |  |
|                                    | NBIT      | 1023                    | 30.7                     | C                       |                          |                         |                              |                             | 80                  | 347             |                 |  |  |
|                                    | NBOT      | 695                     | 28.7                     | C                       | 28.8                     | C                       |                              |                             | 62                  | 371             |                 |  |  |
|                                    | NBOR      | 186                     | 29.1                     | C                       |                          |                         |                              |                             | 62                  | 371             |                 |  |  |
|                                    | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 83                  | 405             |                 |  |  |
|                                    | SIU2 (O)  | 4                       | 55.4                     | E                       |                          |                         |                              |                             | 83                  | 405             |                 |  |  |
|                                    | SBIL      | 41                      | 58.6                     | E                       | 31.6                     | C                       |                              |                             | 83                  | 405             |                 |  |  |
|                                    | SBIT      | 1184                    | 30.6                     | C                       |                          |                         |                              |                             | 83                  | 405             |                 |  |  |
|                                    | SBOT      | 668                     | 28.3                     | C                       |                          |                         |                              |                             | 70                  | 396             |                 |  |  |
|                                    | SBOR      | 173                     | 27.2                     | C                       |                          |                         |                              |                             | 70                  | 396             |                 |  |  |
| Roosevelt Blvd & Tomlinson Ave Ped | EBR       | 67                      | 5.9                      | A                       | 5.9                      | A                       | 3.8                          | A                           | 2                   | 54              |                 |  |  |
|                                    | NBIT      | 1067                    | 1.1                      | A                       | 1.1                      | A                       |                              |                             | 0                   | 32              |                 |  |  |
|                                    | NBOT      | 772                     | 2.5                      | A                       | 2.5                      | A                       |                              |                             | 1                   | 55              |                 |  |  |
|                                    | SBIT      | 1226                    | 5.4                      | A                       | 5.4                      | A                       |                              |                             | 8                   | 298             |                 |  |  |
|                                    | SBOT      | 846                     | 6.0                      | A                       | 5.9                      | A                       |                              |                             | 8                   | 279             |                 |  |  |
|                                    | SBOR      | 52                      | 4.1                      | A                       |                          |                         |                              |                             | 11                  | 317             |                 |  |  |
| Roosevelt Blvd & Haldeman Ave      | EBL1 (I)  | 256                     | 51.2                     | D                       | 51.9                     | D                       | 18.0                         | B                           | 89                  | 317             |                 |  |  |
|                                    | EBL2 (O)  | 304                     | 52.5                     | D                       |                          |                         |                              |                             | 89                  | 317             |                 |  |  |
|                                    | EBT       | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 89                  | 317             |                 |  |  |
|                                    | EBR2 (O)  | 2                       | 43.1                     | D                       |                          |                         |                              |                             | 89                  | 317             |                 |  |  |
|                                    | WBL1 (I)  | 18                      | 51.9                     | D                       | 40.3                     | D                       |                              |                             | 11                  | 109             |                 |  |  |
|                                    | WBL2 (O)  | 22                      | 51.3                     | D                       |                          |                         |                              |                             | 11                  | 109             |                 |  |  |
|                                    | WBR1 (I)  | 8                       | 41.8                     | D                       |                          |                         |                              |                             | 11                  | 109             |                 |  |  |
|                                    | WBR2 (O)  | 20                      | 17.2                     | B                       |                          |                         |                              |                             | 15                  | 121             |                 |  |  |
|                                    | NBIU      | 6                       | 18.7                     | B                       | 14.7                     | B                       |                              |                             | 26                  | 426             |                 |  |  |
|                                    | NBIT      | 1062                    | 14.7                     | B                       |                          |                         |                              |                             | 26                  | 426             |                 |  |  |
|                                    | NBOT      | 771                     | 13.1                     | B                       |                          |                         |                              |                             | 27                  | 404             |                 |  |  |
|                                    | NBOR      | 1                       | 0.8                      | A                       | 13.1                     | B                       |                              |                             | 25                  | 405             |                 |  |  |
|                                    | SBIU      | 2                       | 10.0                     | A                       |                          |                         |                              |                             | 26                  | 338             |                 |  |  |
|                                    | SBIT      | 1204                    | 11.2                     | B                       |                          |                         |                              |                             | 26                  | 338             |                 |  |  |
|                                    | SBOT      | 876                     | 12.4                     | B                       | 12.4                     | B                       |                              |                             | 29                  | 388             |                 |  |  |
| Roosevelt Blvd & Plaza Dr          | EBL1 (I)  | 78                      | 38.2                     | D                       | 38.3                     | D                       | 20.6                         | C                           | 38                  | 212             |                 |  |  |
|                                    | EBL2 (O)  | 107                     | 40.2                     | D                       |                          |                         |                              |                             | 38                  | 212             |                 |  |  |
|                                    | EBT       | 0                       | 10.2                     | B                       |                          |                         |                              |                             | 38                  | 212             |                 |  |  |
|                                    | EBR1 (I)  | 45                      | 35.8                     | D                       |                          |                         |                              |                             | 38                  | 212             |                 |  |  |
|                                    | EBR2 (O)  | 17                      | 32.9                     | C                       | 37.1                     | D                       |                              |                             | 36                  | 212             |                 |  |  |
|                                    | WBL1 (I)  | 3                       | 33.9                     | C                       |                          |                         |                              |                             | 3                   | 52              |                 |  |  |
|                                    | WBL2 (O)  | 10                      | 39.4                     | D                       |                          |                         |                              |                             | 3                   | 52              |                 |  |  |
|                                    | WBT       | 2                       | 35.5                     | D                       |                          |                         |                              |                             | 3                   | 52              |                 |  |  |
|                                    | WBR1 (I)  | 2                       | 37.2                     | D                       | 27.4                     | C                       |                              |                             | 3                   | 52              |                 |  |  |
|                                    | WBR2 (O)  | 1                       | 28.9                     | C                       |                          |                         |                              |                             | 3                   | 52              |                 |  |  |
|                                    | NBIU1 (I) | 5                       | 65.4                     | E                       |                          |                         |                              |                             | 230                 | 79              | 471             |  |  |
|                                    | NBIU2 (O) | 18                      | 81.4                     | F                       |                          |                         |                              |                             | 230                 | 79              | 471             |  |  |
|                                    | NBIL      | 74                      | 77.7                     | E                       | 23.5                     | C                       |                              |                             | 230                 | 79              | 471             |  |  |
|                                    | NBIT      | 1229                    | 23.4                     | C                       |                          |                         |                              |                             | 79                  | 471             |                 |  |  |
|                                    | NBOT      | 1095                    | 23.5                     | C                       |                          |                         |                              |                             | 69                  | 517             |                 |  |  |
|                                    | NBOR      | 2                       | 15.2                     | B                       | 8.9                      | A                       |                              |                             | 69                  | 517             |                 |  |  |
|                                    | SBIT      | 1152                    | 8.9                      | A                       |                          |                         |                              |                             | 23                  | 219             |                 |  |  |
|                                    | SBOT      | 1388                    | 18.0                     | B                       |                          |                         |                              |                             | 82                  | 492             |                 |  |  |
|                                    | SBOR      | 215                     | 21.3                     | C                       | 18.4                     | B                       |                              |                             | 82                  | 492             |                 |  |  |

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| Intersection                           | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|--|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Nabisco Dr            | EBL1 (I)  | 5                       | 83.1                     | F                       | 57.3                     | E                       | 14.0                         | B                           |                     | 13              | 100             |  |  |
|  | EBL2 (O)  | 1                       | 66.5                     | E                       |                          |                         |                              |                             |                     | 13              | 100             |  |  |
|  | EBR2 (O)  | 43                      | 54.2                     | D                       |                          |                         |                              |                             |                     | 13              | 100             |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       |                          | 28.1                    |                              |                             |                     | 43              | 336             |  |  |
|  | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 43              | 336             |  |  |
|  | NBIL      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 43              | 336             |  |  |
|  | NBIT      | 1310                    | 28.1                     | C                       |                          |                         |                              |                             |                     | 43              | 336             |  |  |
|  | NBOT      | 1205                    | 24.7                     | C                       | 24.7                     | C                       |                              |                             |                     | 103             | 320             |  |  |
|  | SBIT      | 1146                    | 0.5                      | A                       | 0.5                      | A                       |                              |                             |                     | 1               | 53              |  |  |
|  | SBOT      | 1510                    | 2.6                      | A                       | 2.5                      | A                       |                              |                             |                     | 23              | 338             |  |  |
| Roosevelt Blvd & Comly Rd              | WBL1 (I)  | 33                      | 33.2                     | C                       | 51.2                     | D                       | 40.2                         | D                           |                     | 110             | 637             |  |  |
|  | WBL2 (O)  | 348                     | 54.5                     | D                       |                          |                         |                              |                             |                     | 110             | 637             |  |  |
|  | WBR1 (I)  | 280                     | 49.3                     | D                       |                          |                         |                              |                             |                     | 110             | 637             |  |  |
|  | WBR2 (O)  | 10                      | 49.0                     | D                       |                          |                         |                              |                             |                     | 110             | 637             |  |  |
|  | NBIT      | 1314                    | 23.0                     | C                       | 23.0                     | C                       |                              |                             |                     | 93              | 264             |  |  |
|  | NBOT      | 1035                    | 17.3                     | B                       | 17.4                     | B                       |                              |                             |                     | 94              | 255             |  |  |
|  | NBOR      | 171                     | 18.0                     | B                       |                          |                         |                              |                             |                     | 93              | 255             |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       |                          | 99.5                    | F                            |                             |                     | 225             | 782             |  |  |
|  | SBIU2 (O) | 17                      | 428.9                    | F                       |                          |                         |                              |                             |                     | 225             | 782             |  |  |
|  | SBIL      | 256                     | 421.7                    | F                       |                          |                         |                              |                             |                     | 225             | 782             |  |  |
|  | SBIT      | 1111                    | 20.2                     | C                       |                          |                         |                              |                             |                     | 855             | 217             |  |  |
|  | SBOT      | 1194                    | 7.5                      | A                       | 7.5                      | A                       |                              |                             |                     | 22              | 164             |  |  |
| Roosevelt Blvd & Byberry Rd            | EBL2 (O)  | 76                      | 32.0                     | C                       | 37.8                     | D                       | 21.2                         | C                           |                     | 53              | 292             |  |  |
|  | EBR1 (I)  | 134                     | 40.9                     | D                       |                          |                         |                              |                             |                     | 53              | 292             |  |  |
|  | EBR2 (O)  | 151                     | 37.9                     | D                       |                          |                         |                              |                             |                     | 53              | 292             |  |  |
|  | NBIU1 (I) | 4                       | 72.5                     | E                       |                          | 5.9                     | A                            |                             |                     | 16              | 161             |  |  |
|  | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 16              | 161             |  |  |
|  | NBIL      | 122                     | 22.8                     | C                       |                          |                         |                              |                             |                     | 16              | 161             |  |  |
|  | NBIT      | 1464                    | 4.3                      | A                       |                          | 3.4                     | A                            |                             |                     | 1               | 85              |  |  |
|  | NBOT      | 453                     | 2.0                      | A                       |                          |                         |                              |                             |                     | 3               | 119             |  |  |
|  | NBOR      | 605                     | 4.4                      | A                       |                          |                         |                              |                             |                     | 96              | 433             |  |  |
|  | SBIT      | 1273                    | 39.6                     | D                       | 39.6                     | D                       |                              |                             |                     | 85              | 422             |  |  |
|  | SBOT      | 1046                    | 35.8                     | D                       | 32.7                     | C                       |                              |                             |                     | 3               | 338             |  |  |
| Roosevelt Blvd & Hornig Rd - Crown Way | EBL1 (I)  | 98                      | 34.7                     | C                       | 33.6                     | C                       | 23.6                         | C                           |                     | 28              | 150             |  |  |
|  | EBL2 (O)  | 8                       | 37.6                     | D                       |                          |                         |                              |                             |                     | 28              | 150             |  |  |
|  | EBT       | 2                       | 31.9                     | C                       |                          |                         |                              |                             |                     | 28              | 150             |  |  |
|  | EBR1 (I)  | 46                      | 33.2                     | C                       |                          |                         |                              |                             |                     | 28              | 150             |  |  |
|  | EBR2 (O)  | 78                      | 32.1                     | C                       | 32.9                     | C                       |                              |                             |                     | 28              | 150             |  |  |
|  | WBL1 (I)  | 10                      | 34.7                     | C                       |                          |                         |                              |                             |                     | 16              | 110             |  |  |
|  | WBL2 (O)  | 47                      | 32.6                     | C                       |                          |                         |                              |                             |                     | 16              | 110             |  |  |
|  | WBT       | 5                       | 32.6                     | C                       | 28.4                     | C                       |                              |                             |                     | 16              | 110             |  |  |
|  | WBR1 (I)  | 69                      | 33.0                     | C                       |                          |                         |                              |                             |                     | 16              | 110             |  |  |
|  | WBR2 (O)  | 0                       | 0.0                      | A                       | 42.7                     | D                       |                              |                             |                     | 16              | 110             |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 320             | 113             |  |  |
|  | NBIU2 (O) | 1                       | 54.1                     | D                       |                          |                         |                              |                             |                     | 320             | 113             |  |  |
|  | NBIL      | 16                      | 83.1                     | F                       |                          |                         |                              |                             |                     | 320             | 113             |  |  |
|  | NBIT      | 1500                    | 42.3                     | D                       |                          |                         |                              |                             |                     | 113             | 507             |  |  |
|  | NBOT      | 1267                    | 28.5                     | C                       | 7.6                      | A                       |                              |                             |                     | 99              | 452             |  |  |
|  | NBOR      | 13                      | 14.9                     | B                       |                          |                         |                              |                             |                     | 116             | 482             |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 17              | 123             |  |  |
|  | SIU2 (O)  | 1                       | 59.4                     | E                       | 11.4                     | B                       |                              |                             |                     | 17              | 123             |  |  |
|  | SBIL      | 3                       | 66.7                     | E                       |                          |                         |                              |                             |                     | 17              | 123             |  |  |
|  | SBIT      | 1233                    | 7.4                      | A                       |                          |                         |                              |                             |                     | 17              | 123             |  |  |
|  | SBOT      | 1501                    | 11.4                     | B                       |                          |                         |                              |                             |                     | 78              | 230             |  |  |
|  | SBOR      | 34                      | 11.6                     | B                       |                          |                         |                              |                             |                     | 78              | 230             |  |  |

## 2025 No Build PM

| Intersection                     | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|----------------------------------|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Southampton Rd  | EBL1 (I)  | 101                     | 64.1                     | E                       | 40.7                     | D                       | 58.6                         | E                           | 190                 | 60              | 298             |  |  |
|                                  | EBL2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 190                 | 60              | 298             |  |  |
|                                  | EBT       | 276                     | 35.6                     | D                       |                          |                         |                              |                             | 60                  | 298             |                 |  |  |
|                                  | EBR1 (I)  | 51                      | 33.2                     | C                       |                          |                         |                              |                             | 190                 | 60              | 298             |  |  |
|                                  | EBR2 (O)  | 100                     | 35.2                     | D                       |                          |                         |                              |                             | 190                 | 56              | 298             |  |  |
|                                  | WBL1 (I)  | 73                      | 51.4                     | D                       | 45.2                     | D                       |                              |                             | 385                 | 126             | 681             |  |  |
|                                  | WBL2 (O)  | 87                      | 53.1                     | D                       |                          |                         |                              |                             | 385                 | 126             | 681             |  |  |
|                                  | WBT       | 461                     | 41.4                     | D                       |                          |                         |                              |                             | 126                 | 681             |                 |  |  |
|                                  | WBR1 (I)  | 357                     | 46.9                     | D                       |                          |                         |                              |                             | 385                 | 126             | 681             |  |  |
|                                  | WBR2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 385                 | 124             | 681             |  |  |
|                                  | NBIU1 (I) | 2                       | 58.0                     | E                       | 27.2                     | C                       |                              |                             | 720                 | 113             | 363             |  |  |
|                                  | NBIU2 (O) | 1                       | 31.2                     | C                       |                          |                         |                              |                             | 720                 | 113             | 363             |  |  |
|                                  | NBIL      | 233                     | 73.2                     | E                       |                          |                         |                              |                             | 720                 | 113             | 363             |  |  |
|                                  | NBIT      | 1625                    | 20.5                     | C                       |                          |                         |                              |                             | 113                 | 363             |                 |  |  |
|                                  | NBOT      | 997                     | 22.9                     | C                       | 22.7                     | C                       |                              |                             | 59                  | 289             |                 |  |  |
|                                  | NBOR      | 99                      | 21.1                     | C                       |                          |                         |                              |                             | 57                  | 290             |                 |  |  |
|                                  | SBIU1 (I) | 11                      | 691.2                    | F                       | 151.8                    | F                       |                              |                             | 690                 | 761             | 1308            |  |  |
|                                  | SIU2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 690                 | 761             | 1308            |  |  |
|                                  | SBIL      | 210                     | 655.3                    | F                       |                          |                         |                              |                             | 690                 | 761             | 1308            |  |  |
|                                  | SBIT      | 1111                    | 51.3                     | D                       |                          |                         |                              |                             | 761                 | 1308            |                 |  |  |
|                                  | SBOT      | 1354                    | 56.5                     | E                       | 56.4                     | E                       |                              |                             | 224                 | 731             |                 |  |  |
|                                  | SBOR      | 236                     | 55.5                     | E                       |                          |                         |                              |                             | 224                 | 731             |                 |  |  |
| Roosevelt Blvd & Northgate Dr    | EBL       | 207                     | 48.8                     | D                       | 31.5                     | C                       | 17.3                         | B                           | 54                  | 199             |                 |  |  |
|                                  | EBT       | 1                       | 50.4                     | D                       |                          |                         |                              |                             | 51                  | 199             |                 |  |  |
|                                  | EBR       | 192                     | 12.7                     | B                       |                          |                         |                              |                             | 75                  | 228             |                 |  |  |
|                                  | WBL       | 1                       | 15.5                     | B                       | 33.1                     | C                       |                              |                             | 0                   | 51              |                 |  |  |
|                                  | WBT       | 6                       | 39.1                     | D                       |                          |                         |                              |                             | 1                   | 51              |                 |  |  |
|                                  | WBR       | 1                       | 16.9                     | B                       |                          |                         |                              |                             | 0                   | 66              |                 |  |  |
|                                  | NBL       | 93                      | 74.0                     | E                       | 27.8                     | C                       |                              |                             | 27                  | 170             |                 |  |  |
|                                  | NBT       | 3003                    | 26.4                     | C                       |                          |                         |                              |                             | 125                 | 860             |                 |  |  |
|                                  | NBR       | 7                       | 8.7                      | A                       | 3.8                      | A                       |                              |                             | 122                 | 853             |                 |  |  |
|                                  | SBT       | 2802                    | 3.7                      | A                       |                          |                         |                              |                             | 21                  | 336             |                 |  |  |
|                                  | SBR       | 21                      | 11.8                     | B                       |                          |                         |                              |                             | 23                  | 342             |                 |  |  |
| Roosevelt Blvd & Old Lincoln Hwy | EBL       | 339                     | 206.6                    | F                       | 159.1                    | F                       | 34.6                         | C                           | 1030                | 1853            |                 |  |  |
|                                  | EBT       | 86                      | 162.3                    | F                       |                          |                         |                              |                             | 1030                | 1853            |                 |  |  |
|                                  | EBR       | 390                     | 117.1                    | F                       |                          |                         |                              |                             | 0                   | 0               |                 |  |  |
|                                  | WBL       | 80                      | 75.5                     | E                       | 66.3                     | E                       |                              |                             | 55                  | 283             |                 |  |  |
|                                  | WBT       | 115                     | 63.1                     | E                       |                          |                         |                              |                             | 55                  | 283             |                 |  |  |
|                                  | WBR       | 12                      | 34.0                     | C                       |                          |                         |                              |                             | 68                  | 298             |                 |  |  |
|                                  | NBL       | 300                     | 77.8                     | E                       | 16.5                     | B                       |                              |                             | 83                  | 368             |                 |  |  |
|                                  | NBT       | 2801                    | 9.9                      | A                       |                          |                         |                              |                             | 83                  | 368             |                 |  |  |
|                                  | NBR       | 1                       | 4.6                      | A                       |                          |                         |                              |                             | 53                  | 369             |                 |  |  |
|                                  | SBL       | 41                      | 49.6                     | D                       | 13.5                     | B                       |                              |                             | 169                 | 778             |                 |  |  |
|                                  | SBT       | 2344                    | 12.7                     | B                       |                          |                         |                              |                             | 57                  | 529             |                 |  |  |
|                                  | SBR       | 92                      | 17.4                     | B                       |                          |                         |                              |                             | 0                   | 17              |                 |  |  |

## 2025 Build PM (Screen 6 - BAT Lane in S Curve)

| Intersection                 | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|------------------------------|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Broad St & Roosevelt Blvd    | EBT      | 920                     | 5.4                      | A                       | 5.4                      | A                       | 14.3                         | B                           |                     | 13              | 181             |  |  |
|                              | EBR      | 146                     | 5.4                      | A                       |                          |                         |                              |                             |                     | 13              | 181             |  |  |
|                              | WBT      | 1293                    | 13.3                     | B                       | 15.0                     | B                       |                              |                             |                     | 53              | 290             |  |  |
|                              | WBL      | 458                     | 19.6                     | B                       |                          |                         |                              |                             |                     | 53              | 290             |  |  |
|                              | NBT      | 663                     | 26.4                     | C                       | 26.4                     | C                       |                              |                             |                     | 57              | 261             |  |  |
|                              | NBR      | 2                       | 25.5                     | C                       |                          |                         |                              |                             |                     | 57              | 261             |  |  |
|                              | SBT      | 489                     | 14.6                     | B                       | 14.6                     | B                       |                              |                             |                     | 36              | 267             |  |  |
|                              | SBR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 37              | 269             |  |  |
| Broad St & Bristol St        | EBT      | 920                     | 9.8                      | A                       | 9.8                      | A                       | 6.5                          | A                           |                     | 21              | 160             |  |  |
|                              | WBT      | 1293                    | 2.4                      | A                       | 2.4                      | A                       |                              |                             |                     | 12              | 111             |  |  |
|                              | NBL      | 21                      | 25.8                     | C                       | 22.3                     | C                       |                              |                             |                     | 11              | 100             |  |  |
|                              | NBR      | 50                      | 20.9                     | C                       |                          |                         |                              |                             |                     | 10              | 98              |  |  |
|                              | SBL      | 96                      | 16.1                     | B                       | 16.0                     | B                       |                              |                             |                     | 13              | 141             |  |  |
|                              | SBR      | 25                      | 15.6                     | B                       |                          |                         |                              |                             |                     | 13              | 141             |  |  |
| Roosevelt Blvd & Old York Rd | EBL      | 89                      | 27.8                     | C                       | 27.8                     | C                       | 22.3                         | C                           |                     | 76              | 334             |  |  |
|                              | EBT      | 431                     | 28.2                     | C                       |                          |                         |                              |                             |                     | 76              | 334             |  |  |
|                              | EBC      | 39                      | 23.5                     | C                       |                          |                         |                              |                             |                     | 81              | 344             |  |  |
|                              | WBL      | N/A                     | N/A                      | N/A                     | 24.7                     | C                       |                              |                             |                     | N/A             | N/A             |  |  |
|                              | WBT      | 580                     | 30.7                     | C                       |                          |                         |                              |                             |                     | 99              | 454             |  |  |
|                              | WBR      | 236                     | 9.9                      | A                       |                          |                         |                              |                             |                     | 107             | 465             |  |  |
|                              | NBL      | 108                     | 13.9                     | B                       | 20.4                     | C                       |                              |                             |                     | 295             | 71              |  |  |
|                              | NBT      | 1001                    | 21.1                     | C                       |                          |                         |                              |                             |                     | 295             | 71              |  |  |
|                              | NBR      | 6                       | 12.8                     | B                       |                          |                         |                              |                             |                     | 295             | 75              |  |  |
|                              | SBL      | 1                       | 3.1                      | A                       | 17.7                     | B                       |                              |                             |                     | 85              | 23              |  |  |
|                              | SBT      | 604                     | 17.7                     | B                       |                          |                         |                              |                             |                     | 85              | 23              |  |  |
|                              | SBR      | 29                      | 17.9                     | B                       |                          |                         |                              |                             |                     | 85              | 26              |  |  |
| Roosevelt Blvd & 9th Street  | EBL1 (I) | 11                      | 4.8                      | A                       | 38.9                     | D                       | 23.7                         | C                           |                     | 25              | 122             |  |  |
|                              | EBL2 (O) | 23                      | 9.0                      | A                       |                          |                         |                              |                             |                     | 25              | 122             |  |  |
|                              | EBT      | 209                     | 42.3                     | D                       |                          |                         |                              |                             |                     | 498             | 68              |  |  |
|                              | EBC1 (I) | 99                      | 42.1                     | D                       |                          |                         |                              |                             |                     | 498             | 68              |  |  |
|                              | EBC2 (O) | 2                       | 47.7                     | D                       |                          |                         |                              |                             |                     | 498             | 68              |  |  |
|                              | WBL1 (I) | 255                     | 2.8                      | A                       | 40.5                     | D                       |                              |                             |                     | 22              | 250             |  |  |
|                              | WBL2 (O) | 55                      | 7.4                      | A                       |                          |                         |                              |                             |                     | 22              | 250             |  |  |
|                              | WBT      | 499                     | 61.7                     | E                       |                          |                         |                              |                             |                     | 174             | 605             |  |  |
|                              | WBR1 (I) | 24                      | 59.9                     | E                       | 32.8                     | C                       |                              |                             |                     | 174             | 605             |  |  |
|                              | WBR2 (O) | 17                      | 60.6                     | E                       |                          |                         |                              |                             |                     | 400             | 85              |  |  |
|                              | NBIL     | 130                     | 19.1                     | B                       | 17.5                     | B                       |                              |                             |                     | 85              | 489             |  |  |
|                              | NBIT     | 2270                    | 17.4                     | B                       |                          |                         |                              |                             |                     | 88              | 489             |  |  |
|                              | NBOT     | 1906                    | 13.8                     | B                       | 13.1                     | B                       |                              |                             |                     | 27              | 317             |  |  |
|                              | NBOR     | 350                     | 9.2                      | A                       |                          |                         |                              |                             |                     | 150             | 536             |  |  |
|                              | SBIL     | 113                     | 62.2                     | E                       | 32.8                     | C                       |                              |                             |                     | 800             | 135             |  |  |
|                              | SBIT     | 1951                    | 31.1                     | C                       |                          |                         |                              |                             |                     | 800             | 135             |  |  |
|                              | SBOT     | 1087                    | 24.1                     | C                       | 24.0                     | C                       |                              |                             |                     | 800             | 461             |  |  |
|                              | SBOR     | 46                      | 22.8                     | C                       |                          |                         |                              |                             |                     | 800             | 95              |  |  |
| Roosevelt Blvd & 7th Street  | EBL1 (I) | 71                      | 0.2                      | A                       | 24.1                     | C                       | 25.1                         | C                           |                     | 515             | 4               |  |  |
|                              | EBL2 (O) | 230                     | 5.0                      | A                       |                          |                         |                              |                             |                     | 515             | 4               |  |  |
|                              | EBT      | 282                     | 45.3                     | D                       |                          |                         |                              |                             |                     | 71              | 306             |  |  |
|                              | EBC1 (I) | 3                       | 53.7                     | D                       |                          |                         |                              |                             |                     | 71              | 306             |  |  |
|                              | EBC2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 71              | 306             |  |  |
|                              | NBIT     | 2303                    | 21.0                     | C                       | 21.0                     | C                       |                              |                             |                     | 950             | 100             |  |  |
|                              | NBOT     | 1969                    | 29.9                     | C                       |                          |                         |                              |                             |                     | 950             | 178             |  |  |
|                              | SBIL     | 18                      | 27.8                     | C                       | 28.5                     | C                       |                              |                             |                     | 98              | 593             |  |  |
|                              | SBIT     | 2065                    | 28.5                     | C                       |                          |                         |                              |                             |                     | 98              | 593             |  |  |
|                              | SBOT     | 1098                    | 22.3                     | C                       | 19.9                     | B                       |                              |                             |                     | 61              | 425             |  |  |
|                              | SBOR     | 194                     | 6.4                      | A                       |                          |                         |                              |                             |                     | 9               | 345             |  |  |
| Roosevelt Blvd & 5th Street  | EBL      | 80                      | 22.3                     | C                       | 40.5                     | D                       | 26.0                         | C                           |                     | 280             | 20              |  |  |
|                              | EBT      | 287                     | 44.1                     | D                       |                          |                         |                              |                             |                     | 280             | 118             |  |  |
|                              | EBC      | 93                      | 44.9                     | D                       |                          |                         |                              |                             |                     | 280             | 117             |  |  |
|                              | WBL      | 111                     | 16.9                     | B                       | 43.2                     | D                       |                              |                             |                     | 225             | 72              |  |  |
|                              | WBT      | 388                     | 50.7                     | D                       |                          |                         |                              |                             |                     | 225             | 103             |  |  |
|                              | WBR      | 2                       | 50.4                     | D                       |                          |                         |                              |                             |                     | 490             | 203             |  |  |
|                              | NBOL     | 261                     | 44.0                     | D                       | 31.3                     | C                       |                              |                             |                     | 490             | 200             |  |  |
|                              | NBOT     | 1890                    | 29.5                     | C                       |                          |                         |                              |                             |                     | 490             | 196             |  |  |
|                              | NBOR     | 6                       | 23.0                     | C                       |                          |                         |                              |                             |                     | 15              | 999             |  |  |
|                              | SBOL     | 119                     | 4.5                      | A                       | 3.4                      | A                       |                              |                             |                     | 15              | 188             |  |  |
|                              | SBOT     | 1044                    | 3.3                      | A                       |                          |                         |                              |                             |                     | 15              | 188             |  |  |
|                              | SBOR     | 22                      | 3.6                      | A                       |                          |                         |                              |                             |                     | 15              | 188             |  |  |

## 2025 Build PM (Screen 6 - BAT Lane in S Curve)

| Intersection                    | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |     |  |  |
|---------------------------------|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|-----|--|--|
| Roosevelt Blvd & 4th-3rd Street | EBL1 (I) | 50                      | 3.4                      | A                       | 36.0                     | D                       | 24.7                         | C                           |                     | 13              | 142             |     |  |  |
|                                 | EBL2 (O) | 88                      | 6.7                      | A                       |                          |                         |                              |                             |                     | 13              | 142             |     |  |  |
|                                 | EBT      | 274                     | 49.9                     | D                       |                          |                         |                              |                             |                     | 80              | 286             |     |  |  |
|                                 | EBR1 (I) | 23                      | 47.9                     | D                       |                          |                         |                              |                             |                     | 80              | 286             |     |  |  |
|                                 | EBR2 (O) | 15                      | 43.0                     | D                       |                          |                         |                              |                             |                     | 80              | 286             |     |  |  |
|                                 | WBL1 (I) | 36                      | 6.3                      | A                       | 30.0                     | C                       |                              |                             |                     | 28              | 165             |     |  |  |
|                                 | WBL2 (O) | 65                      | 9.1                      | A                       |                          |                         |                              |                             |                     | 28              | 165             |     |  |  |
|                                 | WBT      | 283                     | 36.2                     | D                       |                          |                         |                              |                             |                     | 67              | 339             |     |  |  |
|                                 | WBR1 (I) | 13                      | 36.3                     | D                       |                          |                         |                              |                             |                     | 67              | 339             |     |  |  |
|                                 | WBR2 (O) | 65                      | 35.7                     | D                       |                          |                         |                              |                             |                     | 67              | 339             |     |  |  |
|                                 | NBIL     | 224                     | 54.0                     | D                       | 25.7                     | C                       |                              |                             | 275                 | 96              | 788             |     |  |  |
|                                 | NBIT     | 2147                    | 22.7                     | C                       |                          |                         |                              |                             |                     | 96              | 788             |     |  |  |
|                                 | NBOT     | 1907                    | 7.5                      | A                       |                          |                         |                              |                             |                     | 28              | 288             |     |  |  |
|                                 | NBOR     | 17                      | 11.0                     | B                       | 7.6                      | A                       |                              |                             |                     | 28              | 288             |     |  |  |
|                                 | SBIL     | 50                      | 27.3                     | C                       |                          |                         |                              |                             |                     | 150             | 657             |     |  |  |
|                                 | SBIT     | 2025                    | 34.9                     | C                       |                          |                         |                              |                             |                     | 150             | 657             |     |  |  |
|                                 | SBOT     | 1108                    | 26.6                     | C                       | 26.6                     | C                       |                              |                             |                     | 97              | 454             |     |  |  |
|                                 | SBOR     | 8                       | 33.1                     | C                       |                          |                         |                              |                             |                     | 97              | 454             |     |  |  |
| Roosevelt Blvd & 2nd St Ped     | WBR      | 24                      | 4.2                      | A                       | 4.2                      | A                       | 2.5                          | A                           |                     | 0               | 42              |     |  |  |
|                                 | NBIT     | 2505                    | 1.0                      | A                       | 1.0                      | A                       |                              |                             |                     | 3               | 67              |     |  |  |
|                                 | NBOT     | 1756                    | 4.2                      | A                       | 4.2                      | A                       |                              |                             |                     | 6               | 124             |     |  |  |
|                                 | SBIT     | 2147                    | 2.7                      | A                       | 2.7                      | A                       |                              |                             |                     | 4               | 178             |     |  |  |
|                                 | SBOT     | 1199                    | 2.8                      | A                       | 2.8                      | A                       |                              |                             |                     | 4               | 171             |     |  |  |
| Roosevelt Blvd & Mascher St     | EBL1 (I) | 94                      | 3.2                      | A                       | 49.6                     | D                       | 10.9                         | B                           |                     | 20              | 162             |     |  |  |
|                                 | EBL2 (O) | 106                     | 14.8                     | B                       |                          |                         |                              |                             |                     | 20              | 162             |     |  |  |
|                                 | EBT      | 595                     | 59.0                     | E                       |                          |                         |                              |                             |                     | 144             | 443             |     |  |  |
|                                 | EBR1 (I) | 175                     | 63.0                     | E                       |                          |                         |                              |                             |                     | 144             | 443             |     |  |  |
|                                 | EBR2 (O) | 8                       | 62.8                     | E                       |                          |                         |                              |                             |                     | 144             | 443             |     |  |  |
|                                 | NBIT     | 2499                    | 9.2                      | A                       | 9.2                      | A                       |                              |                             | 580                 | 33              | 336             |     |  |  |
|                                 | NBOT     | 1656                    | 5.8                      | A                       | 6.2                      | A                       |                              |                             | 580                 | 30              | 178             |     |  |  |
|                                 | NBOR     | 142                     | 9.9                      | A                       | 580                      | 30                      |                              |                             | 178                 |                 |                 |     |  |  |
|                                 | SBIL     | 67                      | 22.4                     | C                       | 3.6                      | A                       |                              |                             |                     | 15              | 156             |     |  |  |
|                                 | SBIT     | 1972                    | 3.0                      | A                       |                          |                         |                              |                             |                     | 15              | 156             |     |  |  |
|                                 | SBOT     | 1206                    | 2.7                      | A                       | 2.7                      | A                       |                              |                             |                     | 7               | 113             |     |  |  |
| Roosevelt Blvd & Front St       | WBL1     | 61                      | 1.9                      | A                       | 8.4                      | A                       | 8.7                          | A                           |                     | 29              | 181             |     |  |  |
|                                 | WBL2     | 77                      | 4.5                      | A                       |                          |                         |                              |                             |                     | 29              | 181             |     |  |  |
|                                 | WBT      | 750                     | 8.6                      | A                       |                          |                         |                              |                             |                     | 29              | 181             |     |  |  |
|                                 | WBR1     | 15                      | 40.6                     | D                       |                          |                         |                              |                             |                     | 81              | 398             |     |  |  |
|                                 | WBR2     | 5                       | 39.7                     | D                       |                          |                         |                              |                             |                     | 81              | 398             |     |  |  |
|                                 | NBIL     | 320                     | 12.6                     | B                       | 7.2                      | A                       |                              |                             | 380                 | 6               | 96              |     |  |  |
|                                 | NBIT     | 2268                    | 6.4                      | A                       | 4.4                      | A                       |                              |                             | 475                 | 19              | 204             |     |  |  |
|                                 | NBOT     | 1764                    | 4.4                      | A                       |                          |                         |                              |                             | 475                 | 17              | 178             |     |  |  |
|                                 | SBIT     | 1872                    | 11.7                     | B                       |                          |                         |                              |                             |                     | 315             | 41              | 223 |  |  |
|                                 | SBOT     | 1236                    | 13.3                     | B                       | 13.4                     | B                       |                              |                             |                     | 350             | 44              | 224 |  |  |
|                                 | SBOR     | 53                      | 15.4                     | B                       |                          |                         |                              |                             |                     | 350             | 44              | 224 |  |  |
| Roosevelt Blvd & Rising Sun Ave | EBL1 (I) | 81                      | 66.4                     | E                       | 47.8                     | D                       | 26.9                         | C                           |                     | 98              | 230             |     |  |  |
|                                 | EBL2 (O) | 18                      | 41.1                     | D                       |                          |                         |                              |                             |                     | 98              | 230             |     |  |  |
|                                 | EBT      | 178                     | 45.0                     | D                       |                          |                         |                              |                             |                     | 83              | 402             |     |  |  |
|                                 | EBR1 (I) | 138                     | 44.5                     | D                       |                          |                         |                              |                             |                     | 83              | 402             |     |  |  |
|                                 | EBR2 (O) | 57                      | 40.3                     | D                       |                          |                         |                              |                             |                     | 83              | 402             |     |  |  |
|                                 | WBL1 (I) | 15                      | 5.7                      | A                       | 22.7                     | C                       |                              |                             | 60                  | 1               | 93              |     |  |  |
|                                 | WBL2 (O) | 17                      | 8.9                      | A                       |                          |                         |                              |                             | 60                  | 1               | 93              |     |  |  |
|                                 | WBT      | 370                     | 23.5                     | C                       |                          |                         |                              |                             | 60                  | 123             | 337             |     |  |  |
|                                 | WBR1 (I) | 115                     | 24.4                     | C                       |                          |                         |                              |                             | 60                  | 123             | 337             |     |  |  |
|                                 | WBR2 (O) | 42                      | 23.4                     | C                       |                          |                         |                              |                             | 60                  | 123             | 337             |     |  |  |
|                                 | NBIL     | N/A                     | N/A                      | N/A                     | 6.5                      | A                       |                              |                             |                     | N/A             | N/A             |     |  |  |
|                                 | NBIT     | 2278                    | 6.5                      | A                       | 5.2                      | A                       |                              |                             | 245                 | 22              | 232             |     |  |  |
|                                 | NBOT     | 1676                    | 5.2                      | A                       |                          |                         |                              |                             | 230                 | 23              | 207             |     |  |  |
|                                 | SBIL     | 195                     | 131.7                    | F                       |                          |                         |                              |                             | 250                 | 231             | 582             |     |  |  |
|                                 | SBIT     | 1720                    | 49.0                     | D                       | 57.5                     | E                       |                              |                             | 600                 | 231             | 582             |     |  |  |
|                                 | SBOT     | 1214                    | 42.4                     | D                       |                          |                         |                              |                             | 600                 | 152             | 515             |     |  |  |
|                                 | SBOR     | 170                     | 14.5                     | B                       | 38.9                     | D                       |                              |                             | 600                 | 152             | 515             |     |  |  |

## 2025 Build PM (Screen 6 - BAT Lane in S Curve)

| Intersection                                       | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|--|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & B St<br>Michigan U-Turn           | WBR       | 12                      | 0.7                      | A                       | 0.7                      | A                       | 12.6                         | B                           |                     | 0               | 24              |  |  |
|  | NBIU1 (I) | 2                       | 55.9                     | E                       |                          |                         |                              |                             | 275                 | 50              | 235             |  |  |
|  | NBIU2 (O) | 182                     | 52.7                     | D                       | 13.8                     | B                       |                              |                             | 275                 | 50              | 235             |  |  |
|  | NBIT      | 2289                    | 10.7                     | B                       |                          |                         |                              |                             | 620                 | 63              | 337             |  |  |
|  | NBOT      | 1747                    | 22.9                     | C                       | 22.9                     | C                       |                              |                             | 620                 | 129             | 835             |  |  |
|  | NBOR      | 3                       | 6.9                      | A                       |                          |                         |                              |                             | 620                 | 129             | 835             |  |  |
|  | SBIT      | 1932                    | 5.0                      | A                       | 5.0                      | A                       |                              |                             | 450                 | 11              | 264             |  |  |
|  | SBOT      | 1206                    | 7.8                      | A                       | 7.8                      | A                       |                              |                             | 450                 | 9               | 237             |  |  |
| Roosevelt Blvd & C Street                          | EBL1 (I)  | 87                      | 19.0                     | B                       | 42.1                     | D                       | 29.0                         | C                           |                     | 46              | 209             |  |  |
|  | EBL2 (O)  | 151                     | 16.6                     | B                       |                          |                         |                              |                             |                     | 46              | 209             |  |  |
|  | EBT       | 376                     | 56.7                     | E                       |                          |                         |                              |                             |                     | 78              | 426             |  |  |
|  | EBR1 (I)  | 25                      | 49.9                     | D                       |                          |                         |                              |                             |                     | 78              | 426             |  |  |
|  | EBR2 (O)  | 19                      | 52.8                     | D                       |                          |                         |                              |                             |                     | 78              | 426             |  |  |
|  | WBL1 (I)  | 33                      | 7.3                      | A                       | 69.4                     | E                       |                              |                             |                     | 10              | 102             |  |  |
|  | WBL2 (O)  | 34                      | 6.3                      | A                       |                          |                         |                              |                             |                     | 10              | 102             |  |  |
|  | WBT       | 272                     | 80.8                     | F                       |                          |                         |                              |                             |                     | 159             | 533             |  |  |
|  | WBR1 (I)  | 60                      | 85.9                     | F                       |                          |                         |                              |                             |                     | 159             | 533             |  |  |
|  | WBR2 (O)  | 21                      | 76.1                     | E                       |                          |                         |                              |                             |                     | 163             | 538             |  |  |
|  | NBIL      | 45                      | 23.2                     | C                       | 17.2                     | B                       |                              |                             | 640                 | 79              | 387             |  |  |
|  | NBIT      | 2240                    | 17.1                     | B                       |                          |                         |                              |                             | 640                 | 77              | 384             |  |  |
|  | NBOT      | 1716                    | 20.7                     | C                       | 20.6                     | C                       |                              |                             | 640                 | 95              | 405             |  |  |
|  | NBOR      | 47                      | 16.5                     | B                       |                          |                         |                              |                             | 640                 | 95              | 405             |  |  |
|  | SBIL      | 180                     | 71.4                     | E                       | 35.5                     | D                       |                              |                             | 255                 | 59              | 455             |  |  |
|  | SBIT      | 1842                    | 32.0                     | C                       |                          |                         |                              |                             | 775                 | 126             | 649             |  |  |
|  | SBOT      | 1184                    | 31.8                     | C                       | 31.2                     | C                       |                              |                             | 785                 | 107             | 572             |  |  |
|  | SBOR      | 165                     | 26.8                     | C                       |                          |                         |                              |                             | 785                 | 107             | 572             |  |  |
| Roosevelt Blvd & Rorer St - D St                   | WBR       | 39                      | 1.2                      | A                       | 1.2                      | A                       | 3.4                          | A                           |                     | 0               | 40              |  |  |
|  | NBIT      | 2382                    | 3.4                      | A                       | 3.4                      | A                       |                              |                             | 680                 | 4               | 83              |  |  |
|  | NBOT      | 1879                    | 3.5                      | A                       |                          |                         |                              |                             | 680                 | 5               | 116             |  |  |
|  | NBOR      | 4                       | 8.5                      | A                       | 3.5                      | A                       |                              |                             | 680                 | 5               | 116             |  |  |
|  | SBIT      | 2024                    | 4.3                      | A                       | 4.3                      | A                       |                              |                             | 1150                | 5               | 123             |  |  |
|  | SBOT      | 1150                    | 1.5                      | A                       | 1.5                      | A                       |                              |                             | 1160                | 8               | 162             |  |  |
| Roosevelt Blvd & F Street                          | EBL1 (I)  | 156                     | 38.7                     | D                       | 106.9                    | F                       | 43.7                         | D                           |                     | 103             | 205             |  |  |
|  | EBL2 (O)  | 76                      | 12.8                     | B                       |                          |                         |                              |                             |                     | 103             | 205             |  |  |
|  | EBL3      | 21                      | 9.2                      | A                       |                          |                         |                              |                             |                     | 103             | 205             |  |  |
|  | EBT       | 349                     | 151.7                    | F                       |                          |                         |                              |                             |                     | 358             | 868             |  |  |
|  | EBR1 (I)  | 94                      | 148.6                    | F                       |                          |                         |                              |                             |                     | 358             | 868             |  |  |
|  | EBR2 (O)  | 4                       | 148.1                    | F                       |                          |                         |                              |                             |                     | 358             | 868             |  |  |
|  | WBL1 (I)  | 29                      | 5.3                      | A                       | 37.6                     | D                       |                              |                             |                     | 29              | 167             |  |  |
|  | WBL2 (O)  | 77                      | 14.4                     | B                       |                          |                         |                              |                             |                     | 29              | 167             |  |  |
|  | WBT       | 374                     | 44.6                     | D                       |                          |                         |                              |                             |                     | 96              | 435             |  |  |
|  | WBR1 (I)  | 8                       | 47.7                     | D                       |                          |                         |                              |                             |                     | 96              | 435             |  |  |
|  | WBR2 (O)  | 13                      | 41.8                     | D                       |                          |                         |                              |                             |                     | 96              | 435             |  |  |
|  | NBIL      | 268                     | 75.0                     | E                       | 18.4                     | B                       |                              |                             | 170                 | 99              | 412             |  |  |
|  | NBIT      | 2133                    | 11.3                     | B                       |                          |                         |                              |                             | 1275                | 36              | 260             |  |  |
|  | NBOT      | 1834                    | 9.4                      | A                       | 9.5                      | A                       |                              |                             | 1275                | 53              | 269             |  |  |
|  | NBOBR     | 21                      | 24.7                     | C                       |                          |                         |                              |                             | 1275                | 53              | 270             |  |  |
|  | NBOR      | 40                      | 7.8                      | A                       |                          |                         |                              |                             | 1275                | 53              | 269             |  |  |
|  | SBIL      | 202                     | 124.9                    | F                       | 79.6                     | E                       |                              |                             | 1050                | 430             | 845             |  |  |
|  | SBIT      | 2049                    | 75.2                     | E                       |                          |                         |                              |                             | 1050                | 430             | 845             |  |  |
|  | SBOT      | 1079                    | 46.8                     | D                       | 46.5                     | D                       |                              |                             | 1000                | 146             | 576             |  |  |
|  | SBOR      | 59                      | 41.3                     | D                       |                          |                         |                              |                             | 100                 | 146             | 576             |  |  |
| Roosevelt Blvd & Whitaker Ave (South) - Garland St | EBC       | 19                      | 0.8                      | A                       | 0.8                      | A                       | 11.8                         | B                           |                     | 0               | 0               |  |  |
|  | WBR1 (I)  | 526                     | 44.4                     | D                       | 44.2                     | D                       |                              |                             |                     | 86              | 309             |  |  |
|  | WBR2 (O)  | 93                      | 43.1                     | D                       |                          |                         |                              |                             |                     | 86              | 309             |  |  |
|  | NBIT      | 2279                    | 6.5                      | A                       | 6.8                      | A                       |                              |                             | 1080                | 10              | 160             |  |  |
|  | NBOT      | 1921                    | 7.1                      | A                       |                          |                         |                              |                             | 1080                | 12              | 210             |  |  |
|  | NBOR      | 20                      | 8.9                      | A                       | 58.0                     | E                       |                              |                             | 1080                | 12              | 210             |  |  |
|  | SBU1 (I)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 76              | 325             |  |  |
|  | SBU2 (O)  | 4                       | 32.0                     | C                       |                          |                         |                              |                             |                     | 76              | 325             |  |  |
|  | SBL       | 453                     | 58.3                     | E                       |                          |                         |                              |                             | 320                 | 76              | 325             |  |  |
|  | SBIT      | 2120                    | 7.0                      | A                       | 7.0                      | A                       |                              |                             | 450                 | 31              | 271             |  |  |
|  | SBOT      | 1119                    | 2.8                      | A                       | 2.8                      | A                       |                              |                             | 470                 | 4               | 101             |  |  |
|  | SBOR      | 1                       | 3.0                      | A                       |                          |                         |                              |                             | 470                 | 4               | 101             |  |  |

## 2025 Build PM (Screen 6 - BAT Lane in S Curve)

| Intersection                                      | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|---|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Whitaker Ave (North) - Adams Ave | EBL1 (I)  | 16                      | 0.3                      | A                       | 21.0                     | C                       | 20.6                         | C                           |                     | 0               | 84              |  |  |
|   | EBL2 (O)  | 418                     | 2.5                      | A                       |                          |                         |                              |                             |                     | 0               | 84              |  |  |
|   | EBR1 (I)  | 369                     | 41.2                     | D                       |                          |                         |                              |                             |                     | 74              | 221             |  |  |
|   | EBR2 (O)  | 43                      | 34.9                     | C                       |                          |                         |                              |                             |                     | 82              | 233             |  |  |
|   | NBIU1 (I) | 0                       | 0.0                      | A                       | 17.7                     | B                       |                              |                             |                     | 62              | 362             |  |  |
|   | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 62              | 362             |  |  |
|   | NBIL      | 411                     | 19.6                     | B                       |                          |                         |                              |                             |                     | 245             | 362             |  |  |
|   | NBIT      | 2389                    | 17.4                     | B                       |                          |                         |                              |                             |                     | 265             | 628             |  |  |
|   | NBOT      | 2022                    | 19.1                     | B                       | 19.1                     | B                       |                              |                             |                     | 290             | 91              |  |  |
|   | SBIT      | 2218                    | 24.9                     | C                       | 24.9                     | C                       |                              |                             |                     | 780             | 108             |  |  |
|   | SBOT      | 1229                    | 20.4                     | C                       | 21.2                     | C                       |                              |                             |                     | 800             | 75              |  |  |
|   | SBOR      | 541                     | 23.1                     | C                       |                          | 800                     |                              |                             | 479                 |                 |                 |  |  |
| Roosevelt BLvd & Tower Blvd                       | EBR       | 166                     | 17.0                     | B                       | 17.0                     | B                       | 12.2                         | B                           |                     | 10              | 75              |  |  |
|   | NBIU1 (I) | 1                       | 50.8                     | D                       | 8.2                      | A                       |                              |                             |                     | 27              | 160             |  |  |
|   | NBIU2 (O) | 2                       | 50.6                     | D                       |                          |                         |                              |                             |                     | 27              | 159             |  |  |
|   | NBIL      | 212                     | 43.7                     | D                       |                          |                         |                              |                             |                     | 320             | 161             |  |  |
|   | NBIT      | 2188                    | 4.7                      | A                       |                          |                         |                              |                             |                     | 950             | 10              |  |  |
|   | NBOT      | 2440                    | 21.3                     | C                       | 21.3                     | C                       |                              |                             |                     | 950             | 154             |  |  |
|   | SBIU1 (I) | 56                      | 28.5                     | C                       | 10.7                     | B                       |                              |                             |                     | 200             | 20              |  |  |
|   | SBIU1 (O) | 97                      | 28.1                     | C                       |                          |                         |                              |                             |                     | 200             | 20              |  |  |
|   | SBIT      | 2220                    | 9.5                      | A                       |                          |                         |                              |                             |                     | 580             | 284             |  |  |
|   | SBOT      | 1604                    | 6.1                      | A                       | 6.1                      | A                       |                              |                             |                     | 580             | 24              |  |  |
|   | SBOR      | 93                      | 5.6                      | A                       |                          |                         |                              |                             |                     | 580             | 23              |  |  |
| Roosevelt Blvd & Langdon St                       | EBL1 (I)  | 184                     | 1.1                      | A                       | 65.3                     | E                       | 18.0                         | B                           |                     | 2               | 183             |  |  |
|   | EBL2 (O)  | 246                     | 1.2                      | A                       |                          |                         |                              |                             |                     | 1               | 222             |  |  |
|   | EBT       | 436                     | 120.3                    | F                       |                          |                         |                              |                             |                     | 200             | 301             |  |  |
|   | EBR1 (I)  | 56                      | 124.7                    | F                       |                          |                         |                              |                             |                     | 301             | 534             |  |  |
|   | EBR2 (O)  | 4                       | 134.8                    | F                       |                          |                         |                              |                             |                     | 301             | 534             |  |  |
|   | WBL1 (I)  | 30                      | 16.6                     | B                       | 32.5                     | C                       |                              |                             |                     | 3               | 143             |  |  |
|   | WBL2 (O)  | 38                      | 14.1                     | B                       |                          |                         |                              |                             |                     | 3               | 143             |  |  |
|   | WBT       | 78                      | 43.2                     | D                       |                          |                         |                              |                             |                     | 200             | 26              |  |  |
|   | WBR1 (I)  | 25                      | 41.8                     | D                       |                          |                         |                              |                             |                     | 26              | 174             |  |  |
|   | WBR2 (O)  | 17                      | 38.7                     | D                       |                          |                         |                              |                             |                     | 26              | 174             |  |  |
|   | NBLU1 (I) | 0                       | 2.9                      | A                       | 7.4                      | A                       |                              |                             |                     | 40              | 165             |  |  |
|   | NBLU2 (O) | 15                      | 100.9                    | F                       |                          |                         |                              |                             |                     | 40              | 165             |  |  |
|   | NBL       | 92                      | 67.1                     | E                       |                          |                         |                              |                             |                     | 190             | 40              |  |  |
|   | NBIT      | 2132                    | 4.2                      | A                       |                          |                         |                              |                             |                     | 1525            | 10              |  |  |
|   | NBOT      | 2533                    | 17.2                     | B                       | 17.2                     | B                       |                              |                             |                     | 1525            | 148             |  |  |
|   | NBOR      | 15                      | 20.9                     | C                       |                          |                         |                              |                             |                     | 1480            | 640             |  |  |
|   | SBLU1 (I) | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |  |  |
|   | SBLU2 (O) | N/A                     | N/A                      | N/A                     | 7.3                      | A                       |                              |                             |                     | N/A             | N/A             |  |  |
|   | SBL       | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |  |  |
|   | SBIT      | 2313                    | 7.3                      | A                       |                          |                         |                              |                             |                     | 400             | 31              |  |  |
|   | SBOT      | 1614                    | 21.0                     | C                       | 19.8                     | B                       |                              |                             |                     | 415             | 427             |  |  |
|   | SBOR      | 315                     | 14.1                     | B                       |                          |                         |                              |                             |                     | 415             | 102             |  |  |
| Roosevelt Blvd & Summerdale Ave - Adams Ave       | EBL1 (I)  | 3                       | 1.8                      | A                       | 33.5                     | C                       | 11.6                         | B                           |                     | 0               | 26              |  |  |
|   | EBL2 (O)  | 8                       | 6.6                      | A                       |                          |                         |                              |                             |                     | 0               | 26              |  |  |
|   | EBT       | 223                     | 32.3                     | C                       |                          |                         |                              |                             |                     | 1700            | 56              |  |  |
|   | EBR1 (I)  | 110                     | 33.8                     | C                       | 22.7                     | C                       |                              |                             |                     | 300             | 56              |  |  |
|   | EBR2 (O)  | 266                     | 35.5                     | D                       |                          |                         |                              |                             |                     | 300             | 300             |  |  |
|   | WBL1 (I)  | 71                      | 0.4                      | A                       |                          |                         |                              |                             |                     | 730             | 18              |  |  |
|   | WBL2 (O)  | 432                     | 15.0                     | B                       |                          |                         |                              |                             |                     | 730             | 10              |  |  |
|   | WBT       | 215                     | 42.9                     | D                       |                          |                         |                              |                             |                     | 120             | 456             |  |  |
|   | WBR1 (I)  | 11                      | 62.4                     | E                       |                          |                         |                              |                             |                     | 730             | 120             |  |  |
|   | WBR2 (O)  | 5                       | 54.5                     | D                       | 10.7                     | B                       |                              |                             |                     | 730             | 120             |  |  |
|   | NBLU1 (I) | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |  |  |
|   | NBLU2 (O) | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |  |  |
|   | NBL       | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |  |  |
|   | NBIT      | 2332                    | 10.7                     | B                       | 17.0                     | B                       |                              |                             |                     | 450             | 50              |  |  |
|   | NBOT      | 2299                    | 17.3                     | B                       |                          |                         |                              |                             |                     | 450             | 132             |  |  |
|   | NBOR      | 505                     | 15.6                     | B                       |                          |                         |                              |                             |                     | 450             | 1               |  |  |
|   | SBLU1 (I) | N/A                     | N/A                      | N/A                     | 1.8                      | A                       |                              |                             |                     | N/A             | N/A             |  |  |
|   | SBLU2 (O) | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |  |  |
|   | SBL       | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |  |  |
|   | SBIT      | 2211                    | 1.8                      | A                       | 5.9                      | A                       |                              |                             |                     | 950             | 6               |  |  |
|   | SBOT      | 1667                    | 5.9                      | A                       |                          |                         |                              |                             |                     | 950             | 41              |  |  |
|   | SBOR      | 469                     | 5.9                      | A                       |                          |                         |                              |                             |                     | 950             | 205             |  |  |

## 2025 Build PM (Screen 6 - BAT Lane in S Curve)

| Intersection                                       | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|--|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Allengrove St Michigan U-turn     | WBR       | 9                       | 1.0                      | A                       | 1.0                      | A                       | 7.7                          | A                           |                     | 0               | 31              |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 300                 | 85              | 228             |  |  |
|  | NBIU2 (O) | 364                     | 70.2                     | E                       | 11.5                     | B                       |                              |                             | 300                 | 85              | 228             |  |  |
|  | NBIT      | 1983                    | 0.7                      | A                       |                          |                         |                              |                             | 1090                | 1               | 38              |  |  |
|  | NBOT      | 2587                    | 10.0                     | A                       | 10.0                     | A                       |                              |                             | 1090                | 12              | 165             |  |  |
|  | SBIT      | 2141                    | 3.5                      | A                       |                          | 3.5                     |                              |                             | 1040                | 5               | 80              |  |  |
|  | SBOT      | 1284                    | 3.3                      | A                       |                          |                         |                              |                             | 1040                | 8               | 94              |  |  |
| Roosevelt Blvd & Pratt Street                      | EBL1 (I)  | 5                       | 2.6                      | A                       | 35.9                     | D                       | 14.5                         | B                           |                     | 23              | 142             |  |  |
|  | EBL2 (O)  | 12                      | 15.9                     | B                       |                          |                         |                              |                             |                     | 23              | 142             |  |  |
|  | EBT       | 78                      | 40.0                     | D                       |                          |                         |                              |                             |                     | 23              | 144             |  |  |
|  | EBR1 (I)  | 13                      | 41.5                     | D                       |                          |                         |                              |                             |                     | 23              | 144             |  |  |
|  | EBR2 (O)  | 22                      | 36.6                     | D                       |                          |                         |                              |                             |                     | 23              | 144             |  |  |
|  | WBL1 (I)  | 112                     | 5.0                      | A                       | 29.6                     | C                       |                              |                             | 19                  | 118             |                 |  |  |
|  | WBL2 (O)  | 58                      | 6.8                      | A                       |                          |                         |                              |                             | 19                  | 118             |                 |  |  |
|  | WBT       | 254                     | 39.3                     | D                       |                          |                         |                              |                             | 99                  | 420             |                 |  |  |
|  | WBR1 (I)  | 172                     | 39.1                     | D                       |                          |                         |                              |                             | 99                  | 420             |                 |  |  |
|  | WBR2 (O)  | 2                       | 34.9                     | C                       |                          |                         |                              |                             | 99                  | 420             |                 |  |  |
|  | NBIL      | 82                      | 30.7                     | C                       | 5.8                      | A                       |                              |                             | 140                 | 21              | 224             |  |  |
|  | NBIT      | 2047                    | 4.8                      | A                       |                          |                         |                              |                             | 1140                | 21              | 224             |  |  |
|  | NBOT      | 2208                    | 17.2                     | B                       | 17.1                     | B                       |                              |                             | 1140                | 72              | 566             |  |  |
|  | NBOR      | 144                     | 15.6                     | B                       |                          |                         |                              |                             | 1140                | 72              | 566             |  |  |
|  | SBIL      | 67                      | 14.3                     | B                       | 14.8                     | B                       |                              |                             | 500                 | 77              | 254             |  |  |
|  | SBIT      | 2022                    | 14.8                     | B                       |                          |                         |                              |                             | 500                 | 77              | 254             |  |  |
|  | SBOT      | 1185                    | 14.5                     | B                       | 14.4                     | B                       |                              |                             | 500                 | 44              | 284             |  |  |
|  | SBOR      | 23                      | 8.6                      | A                       |                          |                         |                              |                             | 500                 | 44              | 284             |  |  |
| Roosevelt Blvd & Bridge Street                     | EBL1 (I)  | 9                       | 5.2                      | A                       | 40.1                     | D                       | 18.6                         | B                           |                     | 20              | 108             |  |  |
|  | EBL2 (O)  | 39                      | 17.9                     | B                       |                          |                         |                              |                             |                     | 20              | 108             |  |  |
|  | EBT       | 145                     | 44.9                     | D                       |                          |                         |                              |                             |                     | 52              | 266             |  |  |
|  | EBR1 (I)  | 54                      | 48.1                     | D                       |                          |                         |                              |                             |                     | 52              | 266             |  |  |
|  | EBR2 (O)  | 27                      | 42.4                     | D                       |                          |                         |                              |                             |                     | 52              | 266             |  |  |
|  | WBL1 (I)  | 10                      | 2.2                      | A                       | 29.1                     | C                       |                              |                             | 65                  | 176             |                 |  |  |
|  | WBL2 (O)  | 23                      | 3.3                      | A                       |                          |                         |                              |                             | 65                  | 176             |                 |  |  |
|  | WBT       | 145                     | 34.0                     | C                       |                          |                         |                              |                             | 40                  | 245             |                 |  |  |
|  | WBR1 (I)  | 64                      | 31.2                     | C                       |                          |                         |                              |                             | 40                  | 245             |                 |  |  |
|  | WBR2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 510                 | 65              | 420             |  |  |
|  | NBIL      | 145                     | 55.9                     | E                       | 13.9                     | B                       |                              |                             | 510                 | 65              | 420             |  |  |
|  | NBIT      | 2054                    | 11.0                     | B                       |                          |                         |                              |                             |                     | 49              | 180             |  |  |
|  | NBOT      | 2188                    | 7.1                      | A                       | 7.1                      | A                       |                              |                             |                     | 49              | 180             |  |  |
|  | NBOR      | 55                      | 7.7                      | A                       |                          |                         |                              |                             |                     | 98              | 467             |  |  |
|  | SBIL      | 119                     | 36.3                     | D                       | 31.3                     | C                       |                              |                             |                     | 98              | 467             |  |  |
|  | SBIT      | 1992                    | 31.0                     | C                       |                          |                         |                              |                             |                     | 64              | 446             |  |  |
|  | SBOT      | 1192                    | 19.4                     | B                       | 19.3                     | B                       |                              |                             |                     | 64              | 446             |  |  |
|  | SBOR      | 17                      | 16.1                     | B                       |                          |                         |                              |                             |                     |                 |                 |  |  |
| Roosevelt Blvd & Sanger St Ped                     | NBOT      | 2235                    | 13.1                     | B                       | 13.1                     | B                       | 9.1                          | A                           |                     | 51              | 594             |  |  |
|  | SBOT      | 1176                    | 1.6                      | A                       | 1.6                      | A                       |                              |                             |                     | 3               | 134             |  |  |
|  | SBOR      | 4                       | 2.3                      | A                       |                          |                         |                              |                             |                     | 3               | 134             |  |  |
| Roosevelt Blvd NB & Oxford Circle & Oxford Ave     | EBL       | 101                     | 14.7                     | B                       | 8.1                      | A                       | 15.9                         | B                           |                     | 12              | 135             |  |  |
|  | EBT       | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 12              | 135             |  |  |
|  | EBR       | 406                     | 6.5                      | A                       |                          |                         |                              |                             |                     | 12              | 135             |  |  |
|  | WBR       | 478                     | 15.7                     | B                       | 15.7                     | B                       |                              |                             |                     | 13              | 309             |  |  |
|  | NBOT      | 2130                    | 11.1                     | B                       | 11.2                     | B                       |                              |                             |                     | 72              | 333             |  |  |
|  | NBOR      | 158                     | 12.0                     | B                       |                          |                         |                              |                             |                     | 72              | 333             |  |  |
|  | NBOHR     | 5                       | 8.6                      | A                       |                          |                         |                              |                             |                     | 72              | 333             |  |  |
| Roosevelt Blvd NB & Oxford Circle & Cheltenham Ave | WBR       | 126                     | 268.0                    | F                       | 268.0                    | F                       | 15.9                         | B                           |                     | 189             | 261             |  |  |
|  | NBOL      | 396                     | 8.6                      | A                       | 6.9                      | A                       |                              |                             |                     | 32              | 199             |  |  |
|  | NBOT      | 1839                    | 6.6                      | A                       |                          |                         |                              |                             |                     | 31              | 193             |  |  |
|  | NBT       | 475                     | 29.9                     | C                       | 20.5                     | C                       |                              |                             |                     | 48              | 232             |  |  |
|  | NBR       | 331                     | 7.0                      | A                       |                          |                         |                              |                             |                     | 29              | 272             |  |  |
| Roosevelt Blvd SB & Oxford Circle                  | SBOL      | 104                     | 6.1                      | A                       | 6.3                      | A                       | 14.7                         | B                           |                     | 13              | 161             |  |  |
|  | SBOT      | 906                     | 6.3                      | A                       |                          |                         |                              |                             |                     | 13              | 156             |  |  |
|  | SBT       | 553                     | 35.7                     | D                       | 29.1                     | C                       |                              |                             |                     | 147             | 583             |  |  |
|  | SBR       | 274                     | 15.7                     | B                       |                          |                         |                              |                             |                     | 147             | 583             |  |  |
| Roosevelt Blvd SB & Oxford Circle & Castor Ave     | EBR       | 380                     | 15.0                     | B                       | 15.0                     | B                       | 14.7                         | B                           |                     | 22              | 234             |  |  |
|  | WBL       | 168                     | 6.9                      | A                       |                          |                         |                              |                             |                     | 18              | 147             |  |  |
|  | WBT       | 306                     | 14.5                     | B                       | 12.1                     | B                       |                              |                             |                     | 18              | 147             |  |  |
|  | WBR       | 521                     | 12.3                     | B                       |                          |                         |                              |                             |                     | 21              | 162             |  |  |
|  | SBOT      | 840                     | 18.7                     | B                       |                          |                         |                              |                             |                     | 425             | 53              |  |  |
|  | SBOR      | 64                      | 21.3                     | C                       | 19.0                     | B                       |                              |                             |                     | 425             | 53              |  |  |
|  | SBOHR     | 14                      | 20.8                     | C                       |                          |                         |                              |                             |                     | 425             | 52              |  |  |

## 2025 Build PM (Screen 6 - BAT Lane in S Curve)

| Intersection                      | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|-----------------------------------|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Large Street     | EBL1 (I) | 3                       | 37.5                     | D                       | 36.7                     | D                       | 30.0                         | C                           |                     | 22              | 123             |  |  |
|                                   | EBL2 (O) | 44                      | 8.5                      | A                       |                          |                         |                              |                             |                     | 22              | 123             |  |  |
|                                   | E BT     | 230                     | 40.4                     | D                       |                          |                         |                              |                             |                     | 68              | 356             |  |  |
|                                   | EBR1 (I) | 78                      | 40.7                     | D                       |                          |                         |                              |                             |                     | 68              | 356             |  |  |
|                                   | EBR2 (O) | 20                      | 39.7                     | D                       |                          |                         |                              |                             |                     | 68              | 356             |  |  |
|                                   | WBL1 (I) | 18                      | 3.7                      | A                       | 19.2                     | B                       |                              |                             |                     | 43              | 182             |  |  |
|                                   | WBL2 (O) | 14                      | 3.6                      | A                       |                          |                         |                              |                             |                     | 43              | 182             |  |  |
|                                   | W BT     | 190                     | 22.2                     | C                       |                          |                         |                              |                             |                     | 77              | 300             |  |  |
|                                   | WBR1 (I) | 46                      | 19.6                     | B                       |                          |                         |                              |                             |                     | 77              | 300             |  |  |
|                                   | WBR2 (O) | 61                      | 18.0                     | B                       |                          |                         |                              |                             |                     | 77              | 300             |  |  |
|                                   | N BIL    | 279                     | 115.0                    | F                       | 45.1                     | D                       |                              |                             |                     | 170             | 612             |  |  |
|                                   | N BIT    | 1828                    | 34.4                     | C                       |                          |                         |                              |                             |                     | 116             | 617             |  |  |
|                                   | N BOT    | 1857                    | 8.5                      | A                       |                          |                         |                              |                             |                     | 51              | 160             |  |  |
|                                   | S BIL    | 110                     | 48.7                     | D                       | 37.6                     | D                       |                              |                             |                     | 162             | 687             |  |  |
|                                   | S BIT    | 2009                    | 37.0                     | D                       |                          |                         |                              |                             |                     | 158             | 681             |  |  |
|                                   | S BOT    | 852                     | 24.4                     | C                       |                          |                         |                              |                             |                     | 58              | 430             |  |  |
|                                   | S BOR    | 89                      | 9.0                      | A                       | 23.0                     | C                       |                              |                             |                     | 49              | 426             |  |  |
| Roosevelt Blvd & Devereaux Street | EBL1 (I) | 226                     | 3.4                      | A                       | 32.8                     | C                       | 16.0                         | B                           |                     | 5               | 105             |  |  |
|                                   | EBL2 (O) | 31                      | 16.5                     | B                       |                          |                         |                              |                             |                     | 5               | 105             |  |  |
|                                   | E BT     | 547                     | 45.7                     | D                       |                          |                         |                              |                             |                     | 82              | 408             |  |  |
|                                   | EBR1 (I) | 9                       | 45.8                     | D                       | 35.1                     | D                       |                              |                             |                     | 82              | 408             |  |  |
|                                   | EBR2 (O) | 8                       | 37.2                     | D                       |                          |                         |                              |                             |                     | 82              | 408             |  |  |
|                                   | WBL1 (I) | 106                     | 17.9                     | B                       |                          |                         |                              |                             |                     | 570             | 27              |  |  |
|                                   | WBL2 (O) | 97                      | 24.0                     | C                       | 10.9                     | B                       |                              |                             |                     | 570             | 27              |  |  |
|                                   | W BT     | 395                     | 42.6                     | D                       |                          |                         |                              |                             |                     | 570             | 54              |  |  |
|                                   | WBR1 (I) | 13                      | 32.9                     | C                       |                          |                         |                              |                             |                     | 570             | 54              |  |  |
|                                   | N BIL    | 96                      | 19.5                     | B                       | 9.2                      | A                       |                              |                             |                     | 25              | 346             |  |  |
|                                   | N BIT    | 1747                    | 10.4                     | B                       |                          |                         |                              |                             |                     | 28              | 349             |  |  |
|                                   | N BOT    | 1816                    | 8.6                      | A                       |                          |                         |                              |                             |                     | 35              | 303             |  |  |
|                                   | N BOR    | 308                     | 12.5                     | B                       | 16.6                     | B                       |                              |                             |                     | 35              | 303             |  |  |
|                                   | S BIL    | 33                      | 27.6                     | C                       |                          |                         |                              |                             |                     | 56              | 322             |  |  |
|                                   | S BIT    | 2041                    | 16.4                     | B                       |                          |                         |                              |                             |                     | 56              | 322             |  |  |
|                                   | S BOT    | 789                     | 12.4                     | B                       | 12.6                     | B                       |                              |                             |                     | 24              | 214             |  |  |
|                                   | SB OR    | 52                      | 15.4                     | B                       |                          |                         |                              |                             |                     | 24              | 216             |  |  |
|                                   | S B OHR  | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |  |  |
|                                   | SE BR    | N/A                     | N/A                      | N/A                     | N/A                      | N/A                     |                              |                             |                     | N/A             | N/A             |  |  |
| Roosevelt Blvd & Bustleton Ave    | EBL1 (I) | 10                      | 37.8                     | D                       | 4.1                      | A                       | 10.0                         | B                           |                     | 41              | 167             |  |  |
|                                   | EBL2 (O) | 21                      | 30.5                     | C                       |                          |                         |                              |                             |                     | 41              | 167             |  |  |
|                                   | E BT     | 386                     | 2.6                      | A                       |                          |                         |                              |                             |                     | 2               | 143             |  |  |
|                                   | EBR1 (I) | 173                     | 3.0                      | A                       | 4.6                      | A                       |                              |                             |                     | 2               | 143             |  |  |
|                                   | EBR2 (O) | 67                      | 2.1                      | A                       |                          |                         |                              |                             |                     | 2               | 143             |  |  |
|                                   | WBL1 (I) | 0                       | 0.0                      | A                       | 11.9                     | B                       |                              |                             |                     | 65              | 33              |  |  |
|                                   | WBL2 (O) | 6                       | 17.4                     | B                       |                          |                         |                              |                             |                     | 65              | 33              |  |  |
|                                   | W BT     | 416                     | 4.1                      | A                       |                          |                         |                              |                             |                     | 8               | 95              |  |  |
|                                   | WBR1 (I) | 60                      | 6.4                      | A                       | 5.9                      | A                       |                              |                             |                     | 8               | 95              |  |  |
|                                   | WBR2 (O) | 45                      | 5.0                      | A                       |                          |                         |                              |                             |                     | 200             | 39              |  |  |
|                                   | N BIL    | 295                     | 35.3                     | D                       |                          |                         |                              |                             |                     | 16              | 137             |  |  |
|                                   | N BIT    | 1477                    | 7.2                      | A                       | 15.8                     | B                       |                              |                             |                     | 24              | 164             |  |  |
|                                   | N BOT    | 1365                    | 5.9                      | A                       |                          |                         |                              |                             |                     | 56              | 225             |  |  |
|                                   | SB IL    | 166                     | 64.4                     | E                       |                          |                         |                              |                             |                     | 47              | 229             |  |  |
|                                   | SB IT    | 1903                    | 11.6                     | B                       | 6.4                      | A                       |                              |                             |                     | 12              | 113             |  |  |
|                                   | SB OT    | 751                     | 6.4                      | A                       |                          |                         |                              |                             |                     |                 |                 |  |  |
| Bustleton Ave & Robbins Street    | EB L     | 87                      | 1.6                      | A                       | 0.5                      | A                       | 16.9                         | B                           |                     | 1               | 74              |  |  |
|                                   | E BT     | 434                     | 0.3                      | A                       |                          |                         |                              |                             |                     | 1               | 74              |  |  |
|                                   | W BT     | 521                     | 43.4                     | D                       | 43.5                     | D                       |                              |                             |                     | 78              | 321             |  |  |
|                                   | W BR     | 27                      | 45.1                     | D                       |                          |                         |                              |                             |                     | 78              | 321             |  |  |
|                                   | N BL     | N/A                     | N/A                      | N/A                     | 8.1                      | A                       |                              |                             |                     | N/A             | N/A             |  |  |
|                                   | N BT     | 672                     | 8.1                      | A                       |                          |                         |                              |                             |                     | 29              | 135             |  |  |
|                                   | N BR     | 20                      | 8.0                      | A                       |                          |                         |                              |                             |                     | 29              | 135             |  |  |
| Bustleton Ave & Levick Street     | E BT     | 626                     | 73.1                     | E                       | 74.0                     | E                       | 27.2                         | C                           |                     | 159             | 542             |  |  |
|                                   | E BR     | 39                      | 88.6                     | F                       |                          |                         |                              |                             |                     | 159             | 542             |  |  |
|                                   | W BL     | N/A                     | N/A                      | N/A                     | 5.4                      | A                       |                              |                             |                     | N/A             | N/A             |  |  |
|                                   | W BT     | 705                     | 0.4                      | A                       |                          |                         |                              |                             |                     | 0               | 14              |  |  |
|                                   | S BL     | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |  |  |
|                                   | SB T     | 484                     | 5.6                      | A                       | 5.4                      | A                       |                              |                             |                     | 31              | 113             |  |  |
|                                   | S BR     | 72                      | 4.1                      | A                       |                          |                         |                              |                             |                     | 31              | 113             |  |  |

## 2025 Build PM (Screen 6 - BAT Lane in S Curve)

| Intersection                       | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|------------------------------------|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Levick St         | WBL1 (I) | 596                     | 34.8                     | C                       | 35.6                     | D                       | 27.9                         | C                           |                     | 76              | 349             |  |  |
|                                    | WBL2 (O) | 480                     | 37.2                     | D                       |                          |                         |                              |                             |                     | 66              | 334             |  |  |
|                                    | WBR      | 33                      | 26.3                     | C                       |                          |                         |                              |                             |                     | 69              | 342             |  |  |
|                                    | NBIT     | 1542                    | 4.6                      | A                       |                          |                         |                              |                             |                     | 15              | 105             |  |  |
|                                    | NBOT     | 1440                    | 8.9                      | A                       |                          |                         |                              |                             |                     | 33              | 191             |  |  |
|                                    | SBIT     | 1479                    | 52.9                     | D                       |                          |                         |                              |                             |                     | 165             | 508             |  |  |
|                                    | SBOT     | 829                     | 49.2                     | D                       |                          |                         |                              |                             |                     | 82              | 298             |  |  |
| Roosevelt Blvd & Haribson Ave      | EBL1 (I) | 59                      | 16.7                     | B                       | 39.6                     | D                       | 30.5                         | C                           |                     | 2               | 72              |  |  |
|                                    | EBL2 (O) | 12                      | 19.3                     | B                       |                          |                         |                              |                             |                     | 2               | 72              |  |  |
|                                    | EBT      | 609                     | 42.1                     | D                       |                          |                         |                              |                             |                     | 78              | 293             |  |  |
|                                    | EBR1 (I) | 4                       | 44.4                     | D                       |                          |                         |                              |                             |                     | 78              | 293             |  |  |
|                                    | EBR2 (O) | 8                       | 42.2                     | D                       |                          |                         |                              |                             |                     | 78              | 293             |  |  |
|                                    | WBL1 (I) | 40                      | 9.8                      | A                       | 58.7                     | E                       |                              |                             |                     | 4               | 109             |  |  |
|                                    | WBL2 (O) | 86                      | 10.2                     | B                       |                          |                         |                              |                             |                     | 4               | 109             |  |  |
|                                    | WBT      | 550                     | 71.0                     | E                       |                          |                         |                              |                             |                     | 243             | 671             |  |  |
|                                    | WBR1 (I) | 155                     | 145.5                    | F                       |                          |                         |                              |                             |                     | 243             | 671             |  |  |
|                                    | WBR2 (O) | 271                     | 6.7                      | A                       |                          |                         |                              |                             |                     | 21              | 213             |  |  |
|                                    | NBIL     | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |  |  |
|                                    | NBIT     | 1586                    | 14.9                     | B                       |                          |                         |                              |                             |                     | 44              | 301             |  |  |
|                                    | NBOT     | 1275                    | 20.0                     | B                       | 18.6                     | B                       |                              |                             |                     | 74              | 351             |  |  |
|                                    | NBOR     | 155                     | 6.7                      | A                       |                          |                         |                              |                             |                     | 19              | 319             |  |  |
|                                    | SBIL     | 342                     | 77.9                     | E                       |                          |                         |                              |                             |                     | 81              | 221             |  |  |
|                                    | SBIT     | 1346                    | 24.8                     | C                       | 35.5                     | D                       |                              |                             |                     | 71              | 364             |  |  |
|                                    | SBOT     | 885                     | 26.4                     | C                       |                          |                         |                              |                             |                     | 73              | 397             |  |  |
|                                    | SBOR     | 32                      | 16.5                     | B                       |                          |                         |                              |                             |                     | 73              | 397             |  |  |
| Roosevelt Blvd & Unruh Ave Ped     | WBR      | 16                      | 0.9                      | A                       | 0.9                      | A                       | 3.2                          | A                           |                     | 0               | 27              |  |  |
|                                    | NBIT     | 1747                    | 2.5                      | A                       | 2.5                      | A                       |                              |                             |                     | 1               | 73              |  |  |
|                                    | NBOT     | 1456                    | 1.8                      | A                       | 1.8                      | A                       |                              |                             |                     | 2               | 149             |  |  |
|                                    | NBOR     | 148                     | 2.1                      | A                       | 1.8                      | A                       |                              |                             |                     | 2               | 149             |  |  |
|                                    | SBIT     | 1691                    | 4.4                      | A                       | 4.4                      | A                       |                              |                             |                     | 2               | 140             |  |  |
|                                    | SBOT     | 906                     | 4.8                      | A                       | 4.8                      | A                       |                              |                             |                     | 7               | 227             |  |  |
|                                    | SBOR     | 75                      | 4.5                      | A                       | 4.8                      | A                       |                              |                             |                     | 7               | 227             |  |  |
| Roosevelt Blvd & Longshore Ave Ped | WBR      | 87                      | 5.5                      | A                       | 5.5                      | A                       | 3.0                          | A                           |                     | 2               | 64              |  |  |
|                                    | NBIT     | 1747                    | 2.5                      | A                       | 2.5                      | A                       |                              |                             |                     | 1               | 73              |  |  |
|                                    | NBOT     | 1427                    | 5.6                      | A                       | 5.6                      | A                       |                              |                             |                     | 5               | 147             |  |  |
|                                    | NBOR     | 52                      | 5.2                      | A                       | 5.6                      | A                       |                              |                             |                     | 7               | 172             |  |  |
|                                    | EBR      | 10                      | 4.6                      | A                       | 4.6                      | A                       |                              |                             |                     | 0               | 39              |  |  |
|                                    | SBIT     | 1686                    | 1.7                      | A                       | 1.7                      | A                       |                              |                             |                     | 2               | 79              |  |  |
|                                    | SBOT     | 955                     | 1.7                      | A                       | 1.7                      | A                       |                              |                             |                     | 6               | 188             |  |  |
|                                    | SBOR     | 4                       | 2.1                      | A                       |                          |                         |                              |                             |                     | 7               | 201             |  |  |
| Roosevelt Blvd & Tyson Ave         | EBL1 (I) | 123                     | 17.5                     | B                       | 42.2                     | D                       | 35.7                         | D                           |                     | 36              | 174             |  |  |
|                                    | EBL2 (O) | 35                      | 15.6                     | B                       |                          |                         |                              |                             |                     | 36              | 174             |  |  |
|                                    | EBT      | 518                     | 49.5                     | D                       |                          |                         |                              |                             |                     | 97              | 491             |  |  |
|                                    | EBR1 (I) | 20                      | 52.9                     | D                       |                          |                         |                              |                             |                     | 97              | 491             |  |  |
|                                    | EBR2 (O) | 2                       | 49.4                     | D                       |                          |                         |                              |                             |                     | 97              | 491             |  |  |
|                                    | WBL1 (I) | 163                     | 16.1                     | B                       | 131.3                    | F                       |                              |                             |                     | 55              | 202             |  |  |
|                                    | WBL2 (O) | 104                     | 36.1                     | D                       |                          |                         |                              |                             |                     | 55              | 202             |  |  |
|                                    | WBT      | 587                     | 184.6                    | F                       |                          |                         |                              |                             |                     | 429             | 699             |  |  |
|                                    | WBR1 (I) | 62                      | 106.3                    | F                       |                          |                         |                              |                             |                     | 429             | 699             |  |  |
|                                    | WBR2 (O) | 35                      | 101.2                    | F                       |                          |                         |                              |                             |                     | 429             | 699             |  |  |
|                                    | NBIL     | 146                     | 50.0                     | D                       | 18.4                     | B                       |                              |                             |                     | 65              | 380             |  |  |
|                                    | NBIT     | 1586                    | 15.5                     | B                       |                          |                         |                              |                             |                     | 65              | 380             |  |  |
|                                    | NBOT     | 1279                    | 17.6                     | B                       |                          |                         |                              |                             |                     | 460             | 72              |  |  |
|                                    | NBOR     | 241                     | 19.4                     | B                       |                          |                         |                              |                             |                     | 460             | 72              |  |  |
|                                    | SBIL     | 246                     | 48.9                     | D                       | 21.7                     | C                       |                              |                             |                     | 790             | 87              |  |  |
|                                    | SBIT     | 1502                    | 17.2                     | B                       |                          |                         |                              |                             |                     | 790             | 87              |  |  |
|                                    | SBOT     | 844                     | 20.0                     | B                       |                          |                         |                              |                             |                     | 49              | 292             |  |  |
|                                    | SBOR     | 61                      | 21.0                     | C                       |                          |                         |                              |                             |                     | 49              | 292             |  |  |
| Roosevelt Blvd & Friendship St Ped | NBIT     | 1672                    | 2.0                      | A                       | 2.0                      | A                       | 3.8                          | A                           |                     | 1               | 53              |  |  |
|                                    | NBOT     | 1418                    | 2.9                      | A                       | 2.9                      | A                       |                              |                             |                     | 2               | 83              |  |  |
|                                    | SBIT     | 1739                    | 6.3                      | A                       | 6.3                      | A                       |                              |                             |                     | 5               | 254             |  |  |
|                                    | SBOT     | 889                     | 3.8                      | A                       | 3.8                      | A                       |                              |                             |                     | 6               | 174             |  |  |
|                                    | SBOR     | 1                       | 1.1                      | A                       |                          |                         |                              |                             |                     | 7               | 186             |  |  |

## 2025 Build PM (Screen 6 - BAT Lane in S Curve)

| Intersection                            | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|---|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Cottman Ave            | EBL       | 269                     | 33.7                     | C                       | 34.4                     | C                       | 25.4                         | C                           |                     | 50              | 215             |  |  |
|   | EBT       | 850                     | 34.6                     | C                       |                          |                         |                              |                             |                     | 167             | 559             |  |  |
|   | EBR       | 57                      | 35.6                     | D                       |                          |                         |                              |                             |                     | 167             | 559             |  |  |
|   | WBL       | 212                     | 30.5                     | C                       | 28.8                     | C                       |                              |                             |                     | 32              | 222             |  |  |
|   | WBT       | 627                     | 25.4                     | C                       |                          |                         |                              |                             |                     | 76              | 326             |  |  |
|   | WBR       | 130                     | 42.2                     | D                       |                          |                         |                              |                             |                     | 76              | 326             |  |  |
|   | NBL       | 409                     | 31.8                     | C                       | 22.4                     | C                       |                              |                             |                     | 76              | 430             |  |  |
|   | NBT       | 816                     | 18.3                     | B                       |                          |                         |                              |                             |                     | 76              | 430             |  |  |
|   | NBR       | 166                     | 19.2                     | B                       |                          |                         |                              |                             |                     | 76              | 430             |  |  |
|   | SBL       | 149                     | 12.9                     | B                       | 14.8                     | B                       |                              |                             |                     | 40              | 251             |  |  |
|   | SBT       | 674                     | 13.7                     | B                       |                          |                         |                              |                             |                     | 40              | 251             |  |  |
|   | SBR       | 108                     | 24.3                     | C                       |                          |                         |                              |                             |                     | 40              | 251             |  |  |
| Roosevelt Blvd & Borbeck Ave - Ryan Ave | EBL1 (I)  | 30                      | 42.7                     | D                       | 36.7                     | D                       | 29.0                         | C                           |                     | 59              | 299             |  |  |
|   | EBL2 (O)  | 23                      | 38.2                     | D                       |                          |                         |                              |                             |                     | 59              | 299             |  |  |
|   | EBT       | 246                     | 36.0                     | D                       | 35.1                     | D                       |                              |                             |                     | 59              | 299             |  |  |
|   | EBR1 (I)  | 20                      | 37.6                     | D                       |                          |                         |                              |                             |                     | 59              | 299             |  |  |
|   | EBR2 (O)  | 6                       | 24.1                     | C                       |                          |                         |                              |                             |                     | 59              | 299             |  |  |
|   | WBL1 (I)  | 17                      | 33.9                     | C                       | 32.9                     | C                       |                              |                             |                     | 58              | 339             |  |  |
|   | WBL2 (O)  | 51                      | 38.4                     | D                       |                          |                         |                              |                             |                     | 58              | 339             |  |  |
|   | WBT       | 254                     | 35.1                     | D                       |                          |                         |                              |                             |                     | 58              | 339             |  |  |
|   | WBR1 (I)  | 38                      | 32.9                     | C                       | 21.0                     | C                       |                              |                             |                     | 58              | 339             |  |  |
|   | WBR2 (O)  | 8                       | 28.6                     | C                       |                          |                         |                              |                             |                     | 60              | 343             |  |  |
|   | NBIU1 (I) | 25                      | 120.7                    | F                       |                          |                         |                              |                             |                     | 340             | 126 680         |  |  |
|   | NBIU2 (O) | 32                      | 91.9                     | F                       | 26.1                     | C                       |                              |                             |                     | 340             | 126 680         |  |  |
|   | NBIL      | 124                     | 69.0                     | E                       |                          |                         |                              |                             |                     | 340             | 126 680         |  |  |
|   | NBIT      | 1384                    | 26.8                     | C                       |                          |                         |                              |                             |                     | 109             | 768             |  |  |
|   | NBOT      | 1000                    | 21.1                     | C                       | 30.6                     | C                       |                              |                             |                     | 52              | 424             |  |  |
|   | NBOR      | 40                      | 18.1                     | B                       |                          |                         |                              |                             |                     | 52              | 424             |  |  |
|   | SBIU1 (I) | 1                       | 21.0                     | C                       |                          |                         |                              |                             |                     | 315             | 38 239          |  |  |
| Roosevelt Blvd & Rhawn St               | SIU2 (O)  | 39                      | 75.3                     | E                       | 49.5                     | D                       | 27.1                         | C                           |                     | 315             | 38 239          |  |  |
|   | SBIL      | 120                     | 33.4                     | C                       |                          |                         |                              |                             |                     | 315             | 38 239          |  |  |
|   | SBIT      | 1389                    | 24.2                     | C                       |                          |                         |                              |                             |                     | 70              | 322             |  |  |
|   | SBOT      | 1109                    | 30.4                     | C                       | 42.4                     | D                       |                              |                             |                     | 102             | 358             |  |  |
|   | SBOR      | 83                      | 33.2                     | C                       |                          |                         |                              |                             |                     | 102             | 358             |  |  |
|   | EBL1 (I)  | 69                      | 56.0                     | E                       |                          |                         |                              |                             |                     | 135             | 638             |  |  |
|   | EBL2 (O)  | 62                      | 53.9                     | D                       |                          |                         |                              |                             |                     | 135             | 638             |  |  |
|   | EBT       | 404                     | 48.3                     | D                       |                          |                         |                              |                             |                     | 135             | 638             |  |  |
|   | EBR1 (I)  | 60                      | 46.8                     | D                       | 7.7                      | A                       |                              |                             |                     | 135             | 638             |  |  |
|   | EBR2 (O)  | 24                      | 46.1                     | D                       |                          |                         |                              |                             |                     | 135             | 638             |  |  |
|   | WBL1 (I)  | 51                      | 52.4                     | D                       |                          |                         |                              |                             |                     | 76              | 288             |  |  |
|   | WBL2 (O)  | 53                      | 51.7                     | D                       | 50.9                     | D                       |                              |                             |                     | 76              | 288             |  |  |
|   | WBT       | 346                     | 39.9                     | D                       |                          |                         |                              |                             |                     | 76              | 288             |  |  |
|   | WBR1 (I)  | 111                     | 41.7                     | D                       |                          |                         |                              |                             |                     | 76              | 288             |  |  |
| Roosevelt Blvd & Holme Ave - Solly Ave  | WBR2 (O)  | 20                      | 39.9                     | D                       | 18.0                     | B                       | 26.6                         | C                           |                     | 76              | 288             |  |  |
|   | NBIU1 (I) | 51                      | 48.9                     | D                       |                          |                         |                              |                             |                     | 39              | 275             |  |  |
|   | NBIU2 (O) | 9                       | 58.2                     | E                       |                          |                         |                              |                             |                     | 39              | 275             |  |  |
|   | NBIL      | 68                      | 47.8                     | D                       | 6.6                      | A                       |                              |                             |                     | 39              | 275             |  |  |
|   | NBIT      | 1308                    | 3.7                      | A                       |                          |                         |                              |                             |                     | 10              | 89              |  |  |
|   | NBOT      | 1046                    | 6.5                      | A                       |                          |                         |                              |                             |                     | 23              | 258             |  |  |
|   | NBOR      | 38                      | 8.7                      | A                       | 9.1                      | A                       |                              |                             |                     | 23              | 261             |  |  |
|   | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 350             | 137 360         |  |  |
|   | SIU2 (O)  | 48                      | 126.3                    | F                       |                          |                         |                              |                             |                     | 350             | 137 360         |  |  |
|   | SBIL      | 143                     | 130.8                    | F                       | 49.2                     | D                       |                              |                             |                     | 350             | 137 360         |  |  |
|   | SBIT      | 1402                    | 40.2                     | D                       |                          |                         |                              |                             |                     | 116             | 566             |  |  |
|   | SBOT      | 1102                    | 18.3                     | B                       |                          |                         |                              |                             |                     | 60              | 307             |  |  |
|   | SBOR      | 50                      | 12.1                     | B                       | 32.2                     | C                       |                              |                             |                     | 62              | 311             |  |  |

## 2025 Build PM (Screen 6 - BAT Lane in S Curve)

| Intersection                 | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |     |  |  |
|------------------------------|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|-----|--|--|
| Roosevelt Blvd & Strahle St  | EBL1 (I)  | 197                     | 47.2                     | D                       | 46.4                     | D                       | 9.7                          | A                           |                     | 46              | 242             |     |  |  |
|                              | EBR1 (I)  | 55                      | 44.8                     | D                       |                          |                         |                              |                             |                     | 46              | 242             |     |  |  |
|                              | EBR2 (O)  | 14                      | 42.4                     | D                       |                          |                         |                              |                             |                     | 46              | 242             |     |  |  |
|                              | WBR       | 31                      | 1.4                      | A                       | 1.4                      | A                       |                              |                             |                     | 0               | 33              |     |  |  |
|                              | NBIU2 (O) | 94                      | 54.4                     | D                       | 10.3                     | B                       |                              |                             |                     | 43              | 282             |     |  |  |
|                              | NBIL      | 53                      | 42.2                     | D                       |                          |                         |                              |                             |                     | 43              | 282             |     |  |  |
|                              | NBIT      | 1332                    | 5.9                      | A                       |                          |                         |                              |                             |                     | 43              | 282             |     |  |  |
|                              | NBOT      | 899                     | 5.0                      | A                       | 5.0                      | A                       |                              |                             |                     | 3               | 221             |     |  |  |
|                              | NBOR      | 7                       | 4.2                      | A                       |                          |                         |                              |                             |                     | 23              | 186             |     |  |  |
|                              | SBIT      | 1537                    | 5.8                      | A                       | 5.8                      | A                       |                              |                             |                     | 16              | 171             |     |  |  |
|                              | SBOT      | 883                     | 9.1                      | A                       | 9.5                      | A                       |                              |                             |                     | 18              | 162             |     |  |  |
|                              | SBOR      | 83                      | 14.1                     | B                       |                          |                         |                              |                             |                     | 17              | 162             |     |  |  |
| Roosevelt Blvd & Woodward St | EBL1 (I)  | 25                      | 37.5                     | D                       | 37.5                     | D                       | 26.6                         | C                           |                     | 22              | 195             |     |  |  |
|                              | EBL2 (O)  | 100                     | 37.8                     | D                       |                          |                         |                              |                             |                     | 22              | 195             |     |  |  |
|                              | EBT       | 81                      | 37.4                     | D                       | 35.0                     | C                       |                              |                             |                     | 28              | 223             |     |  |  |
|                              | EBR1 (I)  | 65                      | 36.9                     | D                       |                          |                         |                              |                             |                     | 28              | 223             |     |  |  |
|                              | EBR2 (O)  | 8                       | 39.0                     | D                       | 22.2                     | C                       |                              |                             |                     | 28              | 223             |     |  |  |
|                              | WBL1 (I)  | 38                      | 36.6                     | D                       | 20.0                     | C                       |                              |                             |                     | 230             | 19              | 199 |  |  |
|                              | WBL2 (O)  | 73                      | 36.0                     | D                       |                          |                         |                              |                             |                     | 230             | 19              | 199 |  |  |
|                              | WBT       | 103                     | 34.0                     | C                       | 27.9                     | C                       |                              |                             |                     | 230             | 20              | 180 |  |  |
|                              | WBR1 (I)  | 9                       | 33.2                     | C                       |                          |                         |                              |                             |                     | 230             | 20              | 180 |  |  |
|                              | WBR2 (O)  | 8                       | 32.5                     | C                       | 31.9                     | C                       |                              |                             |                     | 230             | 20              | 180 |  |  |
|                              | NBIU1 (I) | 6                       | 67.7                     | E                       | 20.0                     | C                       |                              |                             |                     | 39              | 227             |     |  |  |
|                              | NBIU2 (O) | 0                       | 66.0                     | E                       |                          |                         |                              |                             |                     | 39              | 227             |     |  |  |
|                              | NBIL      | 131                     | 53.1                     | D                       | 27.9                     | C                       |                              |                             |                     | 39              | 227             |     |  |  |
|                              | NBIT      | 1371                    | 19.1                     | B                       |                          |                         |                              |                             |                     | 54              | 388             |     |  |  |
|                              | NBOT      | 820                     | 20.1                     | C                       | 31.9                     | C                       |                              |                             |                     | 44              | 264             |     |  |  |
|                              | NBOR      | 28                      | 16.5                     | B                       |                          |                         |                              |                             |                     | 44              | 264             |     |  |  |
|                              | SBIU1 (I) | 0                       | 32.2                     | C                       | 46.3                     | D                       | 37.8                         | D                           |                     | 220             | 12              | 88  |  |  |
|                              | SIU2 (O)  | 0                       | 78.7                     | E                       |                          |                         |                              |                             |                     | 220             | 12              | 88  |  |  |
|                              | SBIL      | 20                      | 42.7                     | D                       | 44.0                     | D                       |                              |                             |                     | 220             | 12              | 88  |  |  |
|                              | SBIT      | 1296                    | 27.6                     | C                       |                          |                         |                              |                             |                     | 67              | 331             |     |  |  |
|                              | SBOT      | 1000                    | 31.4                     | C                       | 30.1                     | C                       |                              |                             |                     | 83              | 406             |     |  |  |
|                              | SBOR      | 71                      | 39.5                     | D                       |                          |                         |                              |                             |                     | 83              | 406             |     |  |  |
| Roosevelt Blvd & Welsh Rd    | EBL1 (I)  | 14                      | 48.0                     | D                       | 46.3                     | D                       | 37.8                         | D                           |                     | 8               | 75              |     |  |  |
|                              | EBL2 (O)  | 48                      | 47.0                     | D                       |                          |                         |                              |                             |                     | 8               | 75              |     |  |  |
|                              | EBT       | 390                     | 46.2                     | D                       | 44.0                     | D                       |                              |                             |                     | 137             | 502             |     |  |  |
|                              | EBR1 (I)  | 117                     | 46.4                     | D                       |                          |                         |                              |                             |                     | 137             | 502             |     |  |  |
|                              | EBR2 (O)  | 23                      | 44.7                     | D                       | 30.1                     | C                       |                              |                             |                     | 137             | 502             |     |  |  |
|                              | WBL1 (I)  | 44                      | 47.3                     | D                       | 20.0                     | C                       |                              |                             |                     | 28              | 191             |     |  |  |
|                              | WBL2 (O)  | 114                     | 56.4                     | E                       |                          |                         |                              |                             |                     | 28              | 191             |     |  |  |
|                              | WBT       | 348                     | 40.5                     | D                       | 48.0                     | D                       |                              |                             |                     | 86              | 463             |     |  |  |
|                              | WBR1 (I)  | 39                      | 38.8                     | D                       |                          |                         |                              |                             |                     | 86              | 463             |     |  |  |
|                              | WBR2 (O)  | 29                      | 39.2                     | D                       | 44.1                     | D                       |                              |                             |                     | 86              | 463             |     |  |  |
|                              | NBIU1 (I) | 14                      | 75.3                     | E                       | 30.1                     | C                       |                              |                             |                     | 0               | 0               |     |  |  |
|                              | NBIU2 (O) | 11                      | 74.9                     | E                       |                          |                         |                              |                             |                     | 0               | 10              |     |  |  |
|                              | NBIL      | 215                     | 74.2                     | E                       | 20.0                     | B                       |                              |                             |                     | 114             | 439             |     |  |  |
|                              | NBIT      | 1161                    | 21.0                     | C                       |                          |                         |                              |                             |                     | 45              | 195             |     |  |  |
|                              | NBOT      | 884                     | 20.4                     | C                       | 44.1                     | D                       |                              |                             |                     | 49              | 229             |     |  |  |
|                              | NBOR      | 78                      | 14.9                     | B                       |                          |                         |                              |                             |                     | 49              | 229             |     |  |  |
|                              | SIU2 (O)  | 6                       | 98.9                     | F                       | 44.1                     | D                       |                              |                             |                     | 44              | 257             |     |  |  |
|                              | SBIL      | 117                     | 68.0                     | E                       |                          |                         |                              |                             |                     | 44              | 257             |     |  |  |
|                              | SBIT      | 1157                    | 45.7                     | D                       | 44.1                     | D                       |                              |                             |                     | 109             | 423             |     |  |  |
|                              | SBOT      | 989                     | 43.6                     | D                       |                          |                         |                              |                             |                     | 139             | 511             |     |  |  |
|                              | SBOR      | 43                      | 56.1                     | E                       |                          |                         |                              |                             |                     | 139             | 511             |     |  |  |

## 2025 Build PM (Screen 6 - BAT Lane in S Curve)

| Intersection                               | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|--|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Goodnow St                | EBL1 (I)  | 28                      | 34.5                     | C                       | 32.5                     | C                       | 19.7                         | B                           |                     | 18              | 129             |  |  |
|  | EBL2 (O)  | 61                      | 33.3                     | C                       |                          |                         |                              |                             |                     | 18              | 129             |  |  |
|  | EBT       | 39                      | 29.3                     | C                       |                          |                         |                              |                             |                     | 18              | 129             |  |  |
|  | EBR1 (I)  | 22                      | 32.7                     | C                       |                          |                         |                              |                             |                     | 18              | 129             |  |  |
|  | EBR2 (O)  | 9                       | 34.1                     | C                       |                          |                         |                              |                             |                     | 18              | 129             |  |  |
|  | WBL1 (I)  | 20                      | 33.2                     | C                       | 31.7                     | C                       |                              |                             |                     | 23              | 139             |  |  |
|  | WBL2 (O)  | 65                      | 31.3                     | C                       |                          |                         |                              |                             |                     | 23              | 139             |  |  |
|  | WBT       | 44                      | 30.7                     | C                       |                          |                         |                              |                             |                     | 23              | 139             |  |  |
|  | WBR1 (I)  | 40                      | 33.0                     | C                       |                          |                         |                              |                             |                     | 23              | 139             |  |  |
|  | WBR2 (O)  | 55                      | 31.7                     | C                       |                          |                         |                              |                             |                     | 21              | 140             |  |  |
|  | NBIU1 (I) | 7                       | 39.9                     | D                       | 6.3                      | A                       |                              |                             |                     | 12              | 116             |  |  |
|  | NBIU2 (O) | 0                       | 4.9                      | A                       |                          |                         |                              |                             |                     | 12              | 116             |  |  |
|  | NBIL      | 52                      | 44.6                     | D                       |                          |                         |                              |                             |                     | 12              | 116             |  |  |
|  | NBIT      | 1151                    | 4.4                      | A                       |                          |                         |                              |                             |                     | 9               | 69              |  |  |
|  | NBOT      | 904                     | 4.8                      | A                       | 4.9                      | A                       |                              |                             |                     | 13              | 113             |  |  |
|  | NBOR      | 66                      | 6.5                      | A                       |                          |                         |                              |                             |                     | 13              | 113             |  |  |
|  | SBIU1 (I) | 0                       | 1.3                      | A                       |                          |                         |                              |                             |                     | 27              | 177             |  |  |
|  | SIU2 (O)  | 6                       | 56.4                     | E                       | 31.1                     | C                       |                              |                             |                     | 27              | 177             |  |  |
|  | SBIL      | 95                      | 55.2                     | E                       |                          |                         |                              |                             |                     | 220             | 27              |  |  |
|  | SBIT      | 1350                    | 29.3                     | C                       |                          |                         |                              |                             |                     | 75              | 563             |  |  |
|  | SBOT      | 911                     | 29.4                     | C                       |                          |                         |                              |                             |                     | 70              | 522             |  |  |
|  | SBOR      | 61                      | 27.7                     | C                       | 29.3                     | C                       |                              |                             |                     | 69              | 523             |  |  |
| Roosevelt Blvd & Grant Ave                 | EBL1 (I)  | 25                      | 57.0                     | E                       | 39.7                     | D                       | 36.3                         | D                           |                     | 17              | 301             |  |  |
|  | EBL2 (O)  | 89                      | 57.6                     | E                       |                          |                         |                              |                             |                     | 17              | 301             |  |  |
|  | EBT       | 914                     | 37.5                     | D                       |                          |                         |                              |                             |                     | 108             | 486             |  |  |
|  | EBR1 (I)  | 69                      | 39.7                     | D                       |                          |                         |                              |                             |                     | 108             | 486             |  |  |
|  | EBR2 (O)  | 28                      | 39.2                     | D                       | 41.1                     | D                       |                              |                             |                     | 108             | 486             |  |  |
|  | WBL1 (I)  | 64                      | 65.3                     | E                       |                          |                         |                              |                             |                     | 41              | 235             |  |  |
|  | WBL2 (O)  | 130                     | 67.8                     | E                       |                          |                         |                              |                             |                     | 41              | 235             |  |  |
|  | WBT       | 1052                    | 37.4                     | D                       |                          |                         |                              |                             |                     | 109             | 486             |  |  |
|  | WBR1 (I)  | 131                     | 35.3                     | D                       | 35.1                     | D                       |                              |                             |                     | 109             | 486             |  |  |
|  | WBR2 (O)  | 43                      | 33.9                     | C                       |                          |                         |                              |                             |                     | 109             | 486             |  |  |
|  | NBIU1 (I) | 5                       | 55.4                     | E                       | 34.6                     | C                       |                              |                             |                     | 44              | 216             |  |  |
|  | NBIU2 (O) | 10                      | 55.5                     | E                       |                          |                         |                              |                             |                     | 44              | 216             |  |  |
|  | NBIL      | 129                     | 60.1                     | E                       |                          |                         |                              |                             |                     | 44              | 216             |  |  |
|  | NBIT      | 1056                    | 31.2                     | C                       |                          |                         |                              |                             |                     | 67              | 392             |  |  |
|  | NBOT      | 804                     | 34.6                     | C                       | 32.0                     | C                       |                              |                             |                     | 84              | 451             |  |  |
|  | NBOR      | 182                     | 37.4                     | D                       |                          |                         |                              |                             |                     | 83              | 452             |  |  |
|  | SBIU1 (I) | 1                       | 43.2                     | D                       |                          |                         |                              |                             |                     | 105             | 414             |  |  |
|  | SIU2 (O)  | 36                      | 63.2                     | E                       |                          |                         |                              |                             |                     | 105             | 414             |  |  |
|  | SBIL      | 363                     | 46.0                     | D                       | 35.7                     | D                       |                              |                             |                     | 105             | 414             |  |  |
|  | SBIT      | 1254                    | 27.0                     | C                       |                          |                         |                              |                             |                     | 87              | 385             |  |  |
|  | SBOT      | 694                     | 32.8                     | C                       |                          |                         |                              |                             |                     | 87              | 386             |  |  |
|  | SBOR      | 61                      | 68.0                     | E                       |                          |                         |                              |                             |                     | 87              | 386             |  |  |
| Roosevelt Blvd & Whitman Plaza - Fulmer St | EBR       | 13                      | 2.2                      | A                       | 2.2                      | A                       | 20.6                         | C                           |                     | 0               | 34              |  |  |
|  | WBL       | 174                     | 29.1                     | C                       |                          |                         |                              |                             |                     | 26              | 156             |  |  |
|  | WBR1 (I)  | 96                      | 32.6                     | C                       |                          |                         |                              |                             |                     | 26              | 156             |  |  |
|  | WBR2 (O)  | 11                      | 32.8                     | C                       |                          |                         |                              |                             |                     | 26              | 156             |  |  |
|  | NBIU      | 35                      | 16.4                     | B                       | 16.2                     | B                       |                              |                             |                     | 42              | 289             |  |  |
|  | NBIT      | 1177                    | 16.2                     | B                       |                          |                         |                              |                             |                     | 42              | 289             |  |  |
|  | NBOT      | 776                     | 20.0                     | B                       | 20.3                     | C                       |                              |                             |                     | 42              | 366             |  |  |
|  | NBOR      | 195                     | 21.3                     | C                       |                          |                         |                              |                             |                     | 41              | 367             |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       | 23.2                     | C                       |                              |                             |                     | 55              | 191             |  |  |
|  | SBIU2 (O) | 42                      | 75.3                     | E                       |                          |                         |                              |                             |                     | 55              | 191             |  |  |
|  | SBIL      | 207                     | 68.4                     | E                       |                          |                         |                              |                             |                     | 55              | 191             |  |  |
|  | SBIT      | 1400                    | 15.0                     | B                       |                          |                         |                              |                             |                     | 41              | 481             |  |  |
|  | SBOT      | 838                     | 19.3                     | B                       | 19.3                     | B                       |                              |                             |                     | 37              | 369             |  |  |
|  | SBOR      | 4                       | 13.1                     | B                       |                          |                         |                              |                             |                     | 37              | 369             |  |  |
| Roosevelt Blvd & Lott Street               | EBL1 (I)  | 65                      | 37.6                     | D                       | 38.4                     | D                       | 28.8                         | C                           |                     | 26              | 182             |  |  |
|  | EBR1 (I)  | 107                     | 38.3                     | D                       |                          |                         |                              |                             |                     | 26              | 182             |  |  |
|  | EBR2 (O)  | 5                       | 52.6                     | D                       |                          |                         |                              |                             |                     | 26              | 182             |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       | 20.3                     | C                       |                              |                             |                     | 27              | 236             |  |  |
|  | NBIU2 (O) | 7                       | 58.3                     | E                       |                          |                         |                              |                             |                     | 27              | 236             |  |  |
|  | NBIL      | 89                      | 54.1                     | D                       |                          |                         |                              |                             |                     | 27              | 236             |  |  |
|  | NBIT      | 1213                    | 17.6                     | B                       |                          |                         |                              |                             |                     | 41              | 467             |  |  |
|  | NBOT      | 851                     | 17.5                     | B                       | 17.5                     | B                       |                              |                             |                     | 41              | 458             |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 130             | 589             |  |  |
|  | SBIT      | 1551                    | 37.0                     | D                       |                          |                         |                              |                             |                     | 130             | 589             |  |  |
|  | SBOT      | 834                     | 36.2                     | D                       | 36.2                     | D                       |                              |                             |                     | 87              | 437             |  |  |
|  | SBOR      | 36                      | 35.6                     | D                       |                          |                         |                              |                             |                     | 87              | 437             |  |  |

## 2025 Build PM (Screen 6 - BAT Lane in S Curve)

| Intersection                       | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |     |  |  |
|------------------------------------|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|-----|--|--|
| Roosevelt Blvd & Bowler St Ped     | EBR       | 38                      | 5.1                      | A                       | 5.1                      | A                       | 5.3                          | A                           |                     | 1               | 61              |     |  |  |
|                                    | NBIT      | 1271                    | 3.6                      | A                       | 3.6                      | A                       |                              |                             |                     | 7               | 348             |     |  |  |
|                                    | NBOT      | 926                     | 1.6                      | A                       | 1.6                      | A                       |                              |                             |                     | 6               | 244             |     |  |  |
|                                    | SBIT      | 1540                    | 8.1                      | A                       | 8.1                      | A                       |                              |                             |                     | 12              | 461             |     |  |  |
|                                    | SBOT      | 826                     | 7.0                      | A                       | 7.0                      | A                       |                              |                             |                     | 7               | 270             |     |  |  |
|                                    | SBOR      | 1                       | 2.1                      | A                       |                          |                         |                              |                             |                     | 7               | 270             |     |  |  |
| Roosevelt Blvd & Conwell Ave       | EBL1 (I)  | 32                      | 35.1                     | D                       | 33.6                     | C                       | 18.5                         | B                           |                     | 16              | 133             |     |  |  |
|                                    | EBR1 (I)  | 55                      | 33.0                     | C                       |                          |                         |                              |                             |                     | 16              | 133             |     |  |  |
|                                    | EBR2 (O)  | 6                       | 31.5                     | C                       |                          |                         |                              |                             |                     | 16              | 133             |     |  |  |
|                                    | NBIU1 (I) | 0                       | 0.0                      | A                       | 17.8                     | B                       |                              |                             |                     | 40              | 224             |     |  |  |
|                                    | NBIU2 (O) | 0                       | 18.4                     | B                       |                          |                         |                              |                             |                     | 40              | 224             |     |  |  |
|                                    | NBIL      | 121                     | 67.6                     | E                       |                          |                         |                              |                             |                     | 40              | 224             |     |  |  |
|                                    | NBIT      | 1128                    | 12.4                     | B                       | 13.1                     | B                       |                              |                             |                     | 23              | 380             |     |  |  |
|                                    | NBOT      | 1007                    | 13.1                     | B                       |                          |                         |                              |                             |                     | 27              | 401             |     |  |  |
|                                    | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 65              | 530             |     |  |  |
|                                    | SBIT      | 1478                    | 24.3                     | C                       | 24.3                     | C                       |                              |                             |                     | 65              | 530             |     |  |  |
|                                    | SBOT      | 819                     | 14.2                     | B                       |                          |                         |                              |                             |                     | 36              | 397             |     |  |  |
|                                    | SBOR      | 38                      | 12.8                     | B                       |                          |                         |                              |                             |                     | 32              | 397             |     |  |  |
| Roosevelt Blvd & Red Lion Rd       | EBL1 (I)  | 23                      | 68.9                     | E                       | 75.6                     | E                       | 32.3                         | C                           |                     | 270             | 15              | 132 |  |  |
|                                    | EBL2 (O)  | 57                      | 63.8                     | E                       |                          |                         |                              |                             |                     | 270             | 15              | 132 |  |  |
|                                    | EBT       | 625                     | 61.6                     | E                       |                          |                         |                              |                             |                     | 269             | 761             |     |  |  |
|                                    | EBR1 (I)  | 287                     | 105.7                    | F                       | 46.5                     | D                       |                              |                             |                     | 269             | 761             |     |  |  |
|                                    | EBR2 (O)  | 36                      | 103.2                    | F                       |                          |                         |                              |                             |                     | 269             | 761             |     |  |  |
|                                    | WBL1 (I)  | 45                      | 61.3                     | E                       |                          |                         |                              |                             |                     | 26              | 161             |     |  |  |
|                                    | WBL2 (O)  | 91                      | 62.3                     | E                       | 21.3                     | C                       |                              |                             |                     | 26              | 161             |     |  |  |
|                                    | WBT       | 444                     | 42.1                     | D                       |                          |                         |                              |                             |                     | 110             | 490             |     |  |  |
|                                    | WBR1 (I)  | 15                      | 41.7                     | D                       |                          |                         |                              |                             |                     | 110             | 490             |     |  |  |
|                                    | WBR2 (O)  | 23                      | 42.2                     | D                       | 15.7                     | B                       |                              |                             |                     | 110             | 490             |     |  |  |
|                                    | NBIU1 (I) | 2                       | 40.9                     | D                       |                          |                         |                              |                             |                     | 51              | 306             |     |  |  |
|                                    | NBIU2 (O) | 24                      | 47.4                     | D                       |                          |                         |                              |                             |                     | 51              | 306             |     |  |  |
|                                    | NBIL      | 244                     | 43.3                     | D                       | 23.6                     | C                       |                              |                             |                     | 51              | 306             |     |  |  |
|                                    | NBIT      | 956                     | 14.9                     | B                       |                          |                         |                              |                             |                     | 38              | 402             |     |  |  |
|                                    | NBOT      | 830                     | 14.6                     | B                       |                          |                         |                              |                             |                     | 38              | 402             |     |  |  |
|                                    | NBOR      | 189                     | 20.6                     | C                       | 18.6                     | B                       |                              |                             |                     | 62              | 441             |     |  |  |
|                                    | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 62              | 441             |     |  |  |
|                                    | SIU2 (O)  | 3                       | 64.0                     | E                       |                          |                         |                              |                             |                     | 62              | 441             |     |  |  |
|                                    | SBIL      | 37                      | 65.9                     | E                       | 10.5                     | A                       |                              |                             |                     | 62              | 441             |     |  |  |
|                                    | SBIT      | 1143                    | 22.1                     | C                       |                          |                         |                              |                             |                     | 62              | 441             |     |  |  |
|                                    | SBOT      | 721                     | 19.2                     | B                       |                          |                         |                              |                             |                     | 50              | 382             |     |  |  |
|                                    | SBOR      | 174                     | 16.3                     | B                       | 3.2                      | A                       |                              |                             |                     | 50              | 382             |     |  |  |
| Roosevelt Blvd & Tomlinson Ave Ped | EBR       | 67                      | 6.1                      | A                       | 6.1                      | A                       | 2.4                          | A                           |                     | 2               | 52              |     |  |  |
|                                    | NBIT      | 1001                    | 0.9                      | A                       | 0.9                      | A                       |                              |                             |                     | 0               | 26              |     |  |  |
|                                    | NBOT      | 906                     | 2.0                      | A                       | 2.0                      | A                       |                              |                             |                     | 1               | 45              |     |  |  |
|                                    | SBIT      | 1162                    | 3.0                      | A                       | 3.0                      | A                       |                              |                             |                     | 1               | 72              |     |  |  |
|                                    | SBOT      | 881                     | 3.2                      | A                       |                          | 1                       |                              |                             | 110                 |                 |                 |     |  |  |
|                                    | SBOR      | 53                      | 3.7                      | A                       |                          | 2                       |                              |                             | 148                 |                 |                 |     |  |  |
| Roosevelt Blvd & Haldeman Ave      | EBL1 (I)  | 263                     | 51.3                     | D                       | 51.5                     | D                       | 16.2                         | B                           |                     | 88              | 321             |     |  |  |
|                                    | EBL2 (O)  | 309                     | 51.7                     | D                       |                          |                         |                              |                             |                     | 88              | 321             |     |  |  |
|                                    | EBT       | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 88              | 321             |     |  |  |
|                                    | EBR2 (O)  | 2                       | 42.9                     | D                       | 42.1                     | D                       |                              |                             |                     | 88              | 321             |     |  |  |
|                                    | WBL1 (I)  | 15                      | 56.5                     | E                       |                          |                         |                              |                             |                     | 11              | 109             |     |  |  |
|                                    | WBL2 (O)  | 25                      | 57.2                     | E                       |                          |                         |                              |                             |                     | 11              | 109             |     |  |  |
|                                    | WBR1 (I)  | 10                      | 37.1                     | D                       |                          |                         |                              |                             |                     | 11              | 109             |     |  |  |
|                                    | WBR2 (O)  | 20                      | 14.2                     | B                       | 10.5                     | B                       |                              |                             |                     | 15              | 121             |     |  |  |
|                                    | NBIU      | 2                       | 11.5                     | B                       |                          |                         |                              |                             |                     | 18              | 279             |     |  |  |
|                                    | NBIT      | 984                     | 10.5                     | B                       |                          |                         |                              |                             |                     | 18              | 279             |     |  |  |
|                                    | NBOT      | 892                     | 10.2                     | B                       | 10.2                     | B                       |                              |                             |                     | 24              | 323             |     |  |  |
|                                    | NBOR      | 1                       | 2.3                      | A                       |                          |                         |                              |                             |                     | 23              | 324             |     |  |  |
|                                    | SBIU      | 3                       | 5.3                      | A                       |                          |                         |                              |                             |                     | 23              | 379             |     |  |  |
|                                    | SBIT      | 1145                    | 10.5                     | B                       | 10.5                     | B                       |                              |                             |                     | 23              | 379             |     |  |  |
|                                    | SBOT      | 903                     | 10.9                     | B                       |                          |                         |                              |                             |                     | 26              | 373             |     |  |  |

## 2025 Build PM (Screen 6 - BAT Lane in S Curve)

| Intersection                | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|-----------------------------|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Plaza Dr   | EBL1 (I)  | 78                      | 38.1                     | D                       | 36.6                     | D                       | 27.9                         | C                           |                     | 36              | 216             |  |  |
|                             | EBL2 (O)  | 108                     | 37.8                     | D                       |                          |                         |                              |                             |                     | 36              | 216             |  |  |
|                             | EBT       | 0                       | 2.9                      | A                       |                          |                         |                              |                             |                     | 36              | 216             |  |  |
|                             | EBR1 (I)  | 44                      | 33.1                     | C                       |                          |                         |                              |                             |                     | 36              | 216             |  |  |
|                             | EBR2 (O)  | 17                      | 32.1                     | C                       |                          |                         |                              |                             |                     | 33              | 216             |  |  |
|                             | WBL1 (I)  | 2                       | 39.3                     | D                       | 32.5                     | C                       |                              |                             |                     | 3               | 45              |  |  |
|                             | WBL2 (O)  | 11                      | 32.2                     | C                       |                          |                         |                              |                             |                     | 3               | 45              |  |  |
|                             | WBT       | 2                       | 30.0                     | C                       |                          |                         |                              |                             |                     | 3               | 45              |  |  |
|                             | WBR1 (I)  | 3                       | 32.7                     | C                       |                          |                         |                              |                             |                     | 3               | 45              |  |  |
|                             | WBR2 (O)  | 0                       | 13.4                     | B                       |                          |                         |                              |                             |                     | 3               | 45              |  |  |
|                             | NBIU1 (I) | 4                       | 65.4                     | E                       | 17.4                     | B                       |                              |                             |                     | 230             | 52              |  |  |
|                             | NBIU2 (O) | 24                      | 62.1                     | E                       |                          |                         |                              |                             |                     | 230             | 52              |  |  |
|                             | NBIL      | 80                      | 60.2                     | E                       |                          |                         |                              |                             |                     | 230             | 52              |  |  |
|                             | NBIT      | 1145                    | 13.4                     | B                       |                          |                         |                              |                             |                     | 52              | 278             |  |  |
|                             | NBOT      | 1215                    | 14.9                     | B                       | 14.9                     | B                       |                              |                             |                     | 46              | 407             |  |  |
|                             | NBOR      | 3                       | 21.5                     | C                       |                          |                         |                              |                             |                     | 46              | 407             |  |  |
|                             | SBIT      | 1109                    | 34.7                     | C                       |                          |                         |                              |                             |                     | 84              | 348             |  |  |
|                             | SBOT      | 1420                    | 39.2                     | D                       | 39.7                     | D                       |                              |                             |                     | 190             | 838             |  |  |
|                             | SBOR      | 214                     | 42.9                     | D                       |                          |                         |                              |                             |                     | 189             | 838             |  |  |
| Roosevelt Blvd & Nabisco Dr | EBL1 (I)  | 5                       | 59.0                     | E                       | 55.2                     | E                       | 6.1                          | A                           |                     | 14              | 109             |  |  |
|                             | EBL2 (O)  | 0                       | 24.4                     | C                       |                          |                         |                              |                             |                     | 14              | 109             |  |  |
|                             | EBR2 (O)  | 43                      | 55.0                     | E                       |                          |                         |                              |                             |                     | 14              | 109             |  |  |
|                             | NBIU1 (I) | 0                       | 0.0                      | A                       | 7.7                      | A                       |                              |                             |                     | 8               | 186             |  |  |
|                             | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 8               | 186             |  |  |
|                             | NBIL      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 8               | 186             |  |  |
|                             | NBIT      | 1231                    | 7.7                      | A                       |                          |                         |                              |                             |                     | 8               | 186             |  |  |
|                             | NBOT      | 1332                    | 10.7                     | B                       | 10.7                     | B                       |                              |                             |                     | 29              | 299             |  |  |
|                             | SBIT      | 1083                    | 2.6                      | A                       |                          |                         |                              |                             |                     | 5               | 146             |  |  |
|                             | SBOT      | 1530                    | 1.9                      | A                       |                          |                         |                              |                             |                     | 7               | 196             |  |  |
|                             | SBOR      | 30                      | 1.4                      | A                       | 1.8                      | A                       |                              |                             |                     | 7               | 196             |  |  |
| Roosevelt Blvd & Comly Rd   | WBL1 (I)  | 33                      | 38.0                     | D                       | 77.7                     | E                       | 28.8                         | C                           |                     | 251             | 793             |  |  |
|                             | WBL2 (O)  | 347                     | 78.8                     | E                       |                          |                         |                              |                             |                     | 251             | 793             |  |  |
|                             | WBR1 (I)  | 333                     | 80.5                     | F                       |                          |                         |                              |                             |                     | 251             | 793             |  |  |
|                             | WBR2 (O)  | 10                      | 78.2                     | E                       | 15.3                     | B                       |                              |                             |                     | 251             | 793             |  |  |
|                             | NBIT      | 1236                    | 15.3                     | B                       |                          |                         |                              |                             |                     | 49              | 228             |  |  |
|                             | NBOT      | 1108                    | 13.4                     | B                       | 13.9                     | B                       |                              |                             |                     | 72              | 235             |  |  |
|                             | NBOR      | 226                     | 15.9                     | B                       |                          |                         |                              |                             |                     | 70              | 235             |  |  |
|                             | SBIU1 (I) | 0                       | 0.0                      | A                       | 43.4                     | D                       |                              |                             |                     | 225             | 280             |  |  |
|                             | SBIU2 (O) | 23                      | 144.1                    | F                       |                          |                         |                              |                             |                     | 225             | 280             |  |  |
|                             | SBIL      | 289                     | 146.1                    | F                       |                          |                         |                              |                             |                     | 225             | 280             |  |  |
|                             | SBIT      | 1052                    | 13.1                     | B                       | 13.3                     | B                       |                              |                             |                     | 855             | 40              |  |  |
|                             | SBOT      | 1213                    | 13.3                     | B                       |                          |                         |                              |                             |                     | 42              | 553             |  |  |
|                             | SBOR      | 1213                    | 13.3                     | B                       |                          |                         |                              |                             |                     |                 |                 |  |  |
| Roosevelt Blvd & Byberry Rd | EBL2 (O)  | 75                      | 35.0                     | D                       | 39.1                     | D                       | 23.0                         | C                           |                     | 56              | 314             |  |  |
|                             | EBR1 (I)  | 128                     | 41.9                     | D                       |                          |                         |                              |                             |                     | 56              | 314             |  |  |
|                             | EBR2 (O)  | 156                     | 38.8                     | D                       |                          |                         |                              |                             |                     | 56              | 314             |  |  |
|                             | NBIU1 (I) | 5                       | 55.2                     | E                       | 17.8                     | B                       |                              |                             |                     | 67              | 377             |  |  |
|                             | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 67              | 377             |  |  |
|                             | NBIL      | 122                     | 62.8                     | E                       |                          |                         |                              |                             |                     | 67              | 377             |  |  |
|                             | NBIT      | 1438                    | 13.9                     | B                       | 2.8                      | A                       |                              |                             |                     | 67              | 377             |  |  |
|                             | NBOT      | 515                     | 1.7                      | A                       |                          |                         |                              |                             |                     | 1               | 43              |  |  |
|                             | NBOR      | 625                     | 3.6                      | A                       |                          |                         |                              |                             |                     | 1               | 40              |  |  |
|                             | SBIT      | 1244                    | 32.2                     | C                       | 32.2                     | C                       |                              |                             |                     | 74              | 413             |  |  |
|                             | SBOT      | 1067                    | 37.8                     | D                       |                          |                         |                              |                             |                     | 94              | 426             |  |  |
|                             | SBOR      | 150                     | 10.9                     | B                       |                          |                         |                              |                             |                     | 5               | 309             |  |  |

## 2025 Build PM (Screen 6 - BAT Lane in S Curve)

| Intersection                           | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|--|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Hornig Rd - Crown Way | EBL1 (I)  | 85                      | 37.5                     | D                       | 33.5                     | C                       | 18.7                         | B                           |                     | 45              | 226             |  |  |
|  | EBL2 (O)  | 16                      | 33.0                     | C                       |                          |                         |                              |                             |                     | 45              | 226             |  |  |
|  | EBT       | 2                       | 29.3                     | C                       |                          |                         |                              |                             |                     | 45              | 226             |  |  |
|  | EBR1 (I)  | 46                      | 33.9                     | C                       |                          |                         |                              |                             |                     | 45              | 226             |  |  |
|  | EBR2 (O)  | 74                      | 29.0                     | C                       |                          |                         |                              |                             |                     | 45              | 226             |  |  |
|  | WBL1 (I)  | 10                      | 33.9                     | C                       | 32.1                     | C                       |                              |                             |                     | 21              | 146             |  |  |
|  | WBL2 (O)  | 44                      | 31.3                     | C                       |                          |                         |                              |                             |                     | 21              | 146             |  |  |
|  | WBT       | 5                       | 32.0                     | C                       |                          |                         |                              |                             |                     | 21              | 146             |  |  |
|  | WBR1 (I)  | 67                      | 32.3                     | C                       |                          |                         |                              |                             |                     | 21              | 146             |  |  |
|  | WBR2 (O)  | 0                       | 0.0                      | A                       | 21.0                     | C                       |                              |                             |                     | 21              | 146             |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 320             | 48              |  |  |
|  | NBIU2 (O) | 1                       | 54.6                     | D                       |                          |                         |                              |                             |                     | 320             | 48              |  |  |
|  | NBIL      | 15                      | 73.4                     | E                       |                          |                         |                              |                             |                     | 320             | 48              |  |  |
|  | NBIT      | 1492                    | 20.4                     | C                       | 18.9                     | B                       |                              |                             |                     | 48              | 490             |  |  |
|  | NBOT      | 1344                    | 19.1                     | B                       |                          |                         |                              |                             |                     | 63              | 437             |  |  |
|  | NBOR      | 12                      | 5.7                      | A                       |                          |                         |                              |                             |                     | 78              | 467             |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       | 20.0                     | B                       |                              |                             |                     | 45              | 298             |  |  |
|  | SIU2 (O)  | 0                       | 44.1                     | D                       |                          |                         |                              |                             |                     | 45              | 298             |  |  |
|  | SBIL      | 3                       | 61.7                     | E                       |                          |                         |                              |                             |                     | 45              | 298             |  |  |
|  | SBIT      | 1191                    | 19.9                     | B                       |                          |                         |                              |                             |                     | 45              | 298             |  |  |
|  | SBOT      | 1536                    | 12.3                     | B                       | 12.3                     | B                       |                              |                             |                     | 86              | 232             |  |  |
|  | SBOR      | 33                      | 12.7                     | B                       |                          |                         |                              |                             |                     | 86              | 232             |  |  |
| Roosevelt Blvd & Southampton Rd        | EBL1 (I)  | 91                      | 52.9                     | D                       | 36.3                     | D                       | 46.4                         | D                           |                     | 190             | 124             |  |  |
|  | EBL2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 190             | 124             |  |  |
|  | EBT       | 257                     | 32.8                     | C                       |                          |                         |                              |                             |                     | 124             | 401             |  |  |
|  | EBR1 (I)  | 50                      | 32.7                     | C                       |                          |                         |                              |                             |                     | 190             | 124             |  |  |
|  | EBR2 (O)  | 93                      | 31.6                     | C                       |                          |                         |                              |                             |                     | 190             | 121             |  |  |
|  | WBL1 (I)  | 66                      | 44.5                     | D                       | 40.3                     | D                       |                              |                             |                     | 385             | 195             |  |  |
|  | WBL2 (O)  | 86                      | 45.1                     | D                       |                          |                         |                              |                             |                     | 385             | 195             |  |  |
|  | WBT       | 431                     | 37.6                     | D                       |                          |                         |                              |                             |                     | 195             | 794             |  |  |
|  | WBR1 (I)  | 333                     | 41.8                     | D                       |                          |                         |                              |                             |                     | 385             | 195             |  |  |
|  | WBR2 (O)  | 0                       | 0.0                      | A                       | 32.0                     | C                       |                              |                             |                     | 385             | 194             |  |  |
|  | NBIU1 (I) | 1                       | 29.0                     | C                       |                          |                         |                              |                             |                     | 720             | 127             |  |  |
|  | NBIU2 (O) | 1                       | 32.6                     | C                       |                          |                         |                              |                             |                     | 720             | 127             |  |  |
|  | NBIL      | 235                     | 55.3                     | E                       |                          |                         |                              |                             |                     | 720             | 127             |  |  |
|  | NBIT      | 1592                    | 28.6                     | C                       | 25.6                     | C                       |                              |                             |                     | 127             | 504             |  |  |
|  | NBOT      | 1069                    | 25.8                     | C                       |                          |                         |                              |                             |                     | 79              | 568             |  |  |
|  | NBOR      | 98                      | 23.6                     | C                       |                          |                         |                              |                             |                     | 76              | 568             |  |  |
|  | SBIU1 (I) | 11                      | 373.3                    | F                       | 89.0                     | F                       |                              |                             |                     | 690             | 431             |  |  |
|  | SIU2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 690             | 431             |  |  |
|  | SBIL      | 234                     | 356.6                    | F                       |                          |                         |                              |                             |                     | 690             | 431             |  |  |
|  | SBIT      | 1079                    | 28.2                     | C                       | 49.1                     | D                       |                              |                             |                     | 431             | 701             |  |  |
|  | SBOT      | 1387                    | 48.5                     | D                       |                          |                         |                              |                             |                     | 168             | 817             |  |  |
|  | SBOR      | 229                     | 52.9                     | D                       |                          |                         |                              |                             |                     | 168             | 817             |  |  |
| Roosevelt Blvd & Northgate Dr          | EBL       | 206                     | 47.3                     | D                       | 31.0                     | C                       | 12.0                         | B                           |                     | 52              | 195             |  |  |
|  | EBT       | 1                       | 58.3                     | E                       |                          |                         |                              |                             |                     | 50              | 196             |  |  |
|  | EBR       | 192                     | 13.4                     | B                       |                          |                         |                              |                             |                     | 73              | 224             |  |  |
|  | WBL       | 1                       | 33.3                     | C                       | 29.3                     | C                       |                              |                             |                     | 0               | 45              |  |  |
|  | WBT       | 6                       | 31.3                     | C                       |                          |                         |                              |                             |                     | 1               | 45              |  |  |
|  | WBR       | 1                       | 12.2                     | B                       |                          |                         |                              |                             |                     | 1               | 59              |  |  |
|  | NBL       | 95                      | 87.6                     | F                       | 14.8                     | B                       |                              |                             |                     | 40              | 159             |  |  |
|  | NBT       | 2992                    | 12.5                     | B                       |                          |                         |                              |                             |                     | 11              | 171             |  |  |
|  | NBR       | 6                       | 5.0                      | A                       |                          |                         |                              |                             |                     | 9               | 163             |  |  |
|  | SBT       | 2809                    | 6.0                      | A                       | 6.1                      | A                       |                              |                             |                     | 36              | 420             |  |  |
|  | SBR       | 22                      | 12.0                     | B                       |                          |                         |                              |                             |                     | 39              | 427             |  |  |
| Roosevelt Blvd & Old Lincoln Hwy       | EBL       | 396                     | 97.5                     | F                       | 91.7                     | F                       | 24.5                         | C                           |                     | 299             | 1382            |  |  |
|  | EBT       | 88                      | 84.4                     | F                       |                          |                         |                              |                             |                     | 299             | 1382            |  |  |
|  | EBR       | 371                     | 87.2                     | F                       |                          |                         |                              |                             |                     | 195             | 1259            |  |  |
|  | WBL       | 81                      | 70.3                     | E                       | 69.7                     | E                       |                              |                             |                     | 59              | 267             |  |  |
|  | WBT       | 113                     | 70.7                     | E                       |                          |                         |                              |                             |                     | 59              | 267             |  |  |
|  | WBR       | 11                      | 55.5                     | E                       |                          |                         |                              |                             |                     | 71              | 282             |  |  |
|  | NBL       | 297                     | 28.3                     | C                       | 10.5                     | B                       |                              |                             |                     | 52              | 354             |  |  |
|  | NBT       | 2792                    | 8.6                      | A                       |                          |                         |                              |                             |                     | 52              | 354             |  |  |
|  | NBR       | 7                       | 4.5                      | A                       |                          |                         |                              |                             |                     | 45              | 354             |  |  |
|  | SBL       | 40                      | 79.9                     | E                       | 15.1                     | B                       |                              |                             |                     | 206             | 839             |  |  |
|  | SBT       | 2375                    | 13.7                     | B                       |                          |                         |                              |                             |                     | 88              | 618             |  |  |
|  | SBR       | 92                      | 23.8                     | C                       |                          |                         |                              |                             |                     | 0               | 67              |  |  |

## 2025 Build PM (Screen 6.2)

| Intersection                 | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |      |  |  |
|------------------------------|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|------|--|--|
| Broad St & Roosevelt Blvd    | EBT      | 919                     | 5.5                      | A                       | 5.5                      | A                       | 14.4                         | B                           |                     | 13              | 194             |      |  |  |
|                              | EBR      | 146                     | 5.3                      | A                       |                          |                         |                              |                             |                     | 13              | 194             |      |  |  |
|                              | WBT      | 1294                    | 13.4                     | B                       | 15.0                     | B                       |                              |                             |                     | 53              | 296             |      |  |  |
|                              | WBR      | 460                     | 19.5                     | B                       |                          |                         |                              |                             |                     | 53              | 296             |      |  |  |
|                              | NBT      | 665                     | 26.6                     | C                       | 26.6                     | C                       |                              |                             |                     | 57              | 263             |      |  |  |
|                              | NBR      | 2                       | 27.7                     | C                       |                          |                         |                              |                             |                     | 57              | 263             |      |  |  |
|                              | SBT      | 490                     | 14.8                     | B                       | 14.8                     | B                       |                              |                             |                     | 35              | 269             |      |  |  |
|                              | SBR      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 36              | 271             |      |  |  |
| Broad St & Bristol St        | EBT      | 920                     | 9.8                      | A                       | 9.8                      | A                       | 6.5                          | A                           |                     | 21              | 161             |      |  |  |
|                              | WBT      | 1293                    | 2.4                      | A                       | 2.4                      | A                       |                              |                             |                     | 13              | 134             |      |  |  |
|                              | NBL      | 21                      | 23.3                     | C                       | 23.9                     | C                       |                              |                             |                     | 12              | 102             |      |  |  |
|                              | NBR      | 50                      | 24.2                     | C                       |                          |                         |                              |                             |                     | 11              | 100             |      |  |  |
|                              | SBL      | 94                      | 15.1                     | B                       | 15.3                     | B                       |                              |                             |                     | 10              | 140             |      |  |  |
|                              | SBR      | 26                      | 15.9                     | B                       |                          |                         |                              |                             |                     | 10              | 140             |      |  |  |
| Roosevelt Blvd & Old York Rd | EBL      | 89                      | 27.3                     | C                       | 27.1                     | C                       | 22.1                         | C                           |                     | 74              | 337             |      |  |  |
|                              | EBT      | 430                     | 27.2                     | C                       |                          |                         |                              |                             |                     | 74              | 337             |      |  |  |
|                              | EBC      | 40                      | 24.6                     | C                       |                          |                         |                              |                             |                     | 78              | 346             |      |  |  |
|                              | WBL      | N/A                     | N/A                      | N/A                     | 24.8                     | C                       |                              |                             |                     | N/A             | N/A             |      |  |  |
|                              | WBT      | 580                     | 30.5                     | C                       |                          |                         |                              |                             |                     | 99              | 432             |      |  |  |
|                              | WBR      | 235                     | 10.5                     | B                       |                          |                         |                              |                             |                     | 106             | 443             |      |  |  |
|                              | NBL      | 107                     | 14.6                     | B                       | 20.6                     | C                       |                              |                             |                     | 295             | 72              | 413  |  |  |
|                              | NBT      | 1003                    | 21.2                     | C                       |                          |                         |                              |                             |                     | 295             | 72              | 413  |  |  |
|                              | NBR      | 7                       | 13.1                     | B                       |                          |                         |                              |                             |                     | 295             | 76              | 421  |  |  |
|                              | SBL      | 0                       | 2.3                      | A                       | 16.8                     | B                       |                              |                             |                     | 85              | 23              | 288  |  |  |
|                              | SBT      | 606                     | 16.9                     | B                       |                          |                         |                              |                             |                     | 85              | 23              | 288  |  |  |
|                              | SBR      | 28                      | 14.0                     | B                       |                          |                         |                              |                             |                     | 85              | 26              | 300  |  |  |
| Roosevelt Blvd & 9th Street  | EBL1 (I) | 11                      | 3.5                      | A                       | 43.3                     | D                       | 41.2                         | D                           |                     | 36              | 155             |      |  |  |
|                              | EBL2 (O) | 23                      | 16.5                     | B                       |                          |                         |                              |                             |                     | 36              | 155             |      |  |  |
|                              | EBT      | 206                     | 45.8                     | D                       |                          |                         |                              |                             |                     | 498             | 110             | 410  |  |  |
|                              | EBC1 (I) | 208                     | 45.8                     | D                       |                          |                         |                              |                             |                     | 498             | 110             | 410  |  |  |
|                              | EBC2 (O) | 4                       | 46.2                     | D                       |                          |                         |                              |                             |                     | 498             | 110             | 410  |  |  |
|                              | WBL1 (I) | 233                     | 21.8                     | C                       | 137.3                    | F                       |                              |                             |                     | 65              | 190             |      |  |  |
|                              | WBL2 (O) | 51                      | 20.5                     | C                       |                          |                         |                              |                             |                     | 65              | 190             |      |  |  |
|                              | WBT      | 450                     | 205.5                    | F                       |                          |                         |                              |                             |                     | 555             | 684             |      |  |  |
|                              | WBR1 (I) | 23                      | 207.1                    | F                       | 43.9                     | D                       |                              |                             |                     | 555             | 684             |      |  |  |
|                              | WBR2 (O) | 13                      | 183.0                    | F                       |                          |                         |                              |                             |                     | 400             | 105             | 353  |  |  |
|                              | NBIL     | 129                     | 36.9                     | D                       |                          |                         |                              |                             |                     | 105             | 353             |      |  |  |
|                              | NBIT     | 2225                    | 17.4                     | B                       | 33.4                     | C                       |                              |                             |                     | 164             | 832             |      |  |  |
|                              | NBOT     | 1956                    | 33.8                     | C                       |                          |                         |                              |                             |                     | 164             | 832             |      |  |  |
|                              | NBOR     | 349                     | 31.4                     | C                       |                          |                         |                              |                             |                     | 150             | 228             | 939  |  |  |
|                              | SBIL     | 112                     | 129.5                    | F                       | 33.3                     | C                       |                              |                             |                     | 228             | 939             |      |  |  |
|                              | SBIT     | 1977                    | 39.1                     | D                       |                          |                         |                              |                             |                     | 800             | 136             | 766  |  |  |
|                              | SBOT     | 1067                    | 32.8                     | C                       |                          |                         |                              |                             |                     | 800             | 136             | 766  |  |  |
|                              | SBOR     | 50                      | 43.2                     | D                       |                          |                         |                              |                             |                     |                 |                 |      |  |  |
| Roosevelt Blvd & 7th Street  | EBL1 (I) | 80                      | 0.2                      | A                       | 25.3                     | C                       | 25.7                         | C                           |                     | 515             | 10              | 88   |  |  |
|                              | EBL2 (O) | 248                     | 10.2                     | B                       |                          |                         |                              |                             |                     | 515             | 10              | 88   |  |  |
|                              | EBT      | 284                     | 45.4                     | D                       |                          |                         |                              |                             |                     | 71              | 308             |      |  |  |
|                              | EBC1 (I) | 3                       | 55.8                     | E                       |                          |                         |                              |                             |                     | 71              | 308             |      |  |  |
|                              | EBC2 (O) | 0                       | 3.3                      | A                       |                          |                         |                              |                             |                     | 71              | 308             |      |  |  |
|                              | NBIT     | 2260                    | 21.2                     | C                       | 21.2                     | C                       |                              |                             |                     | 950             | 97              | 677  |  |  |
|                              | NBOT     | 2011                    | 32.7                     | C                       | 32.7                     | C                       |                              |                             |                     | 950             | 203             | 1129 |  |  |
|                              | SBIL     | 45                      | 34.1                     | C                       | 27.9                     | C                       |                              |                             |                     | 101             | 635             |      |  |  |
|                              | SBIT     | 2106                    | 27.8                     | C                       |                          |                         |                              |                             |                     | 101             | 635             |      |  |  |
|                              | SBOT     | 1081                    | 21.5                     | C                       | 19.1                     | B                       |                              |                             |                     | 58              | 407             |      |  |  |
|                              | SBOR     | 198                     | 6.2                      | A                       |                          |                         |                              |                             |                     | 9               | 272             |      |  |  |
| Roosevelt Blvd & 5th Street  | EBL      | 79                      | 24.7                     | C                       | 40.8                     | D                       | 28.3                         | C                           |                     | 280             | 20              | 155  |  |  |
|                              | EBT      | 287                     | 44.2                     | D                       |                          |                         |                              |                             |                     | 280             | 119             | 438  |  |  |
|                              | EBC      | 94                      | 44.1                     | D                       |                          |                         |                              |                             |                     | 280             | 118             | 438  |  |  |
|                              | WBL      | 130                     | 26.0                     | C                       | 50.9                     | D                       |                              |                             |                     | 225             | 74              | 262  |  |  |
|                              | WBT      | 385                     | 59.2                     | E                       |                          |                         |                              |                             |                     | 225             | 125             | 463  |  |  |
|                              | WBR      | 2                       | 53.4                     | D                       |                          |                         |                              |                             |                     | 225             | 125             | 463  |  |  |
|                              | NBOL     | 281                     | 45.9                     | D                       | 33.2                     | C                       |                              |                             |                     | 490             | 226             | 1008 |  |  |
|                              | NBOT     | 1921                    | 31.4                     | C                       |                          |                         |                              |                             |                     | 490             | 224             | 1006 |  |  |
|                              | NBOR     | 0                       | 0.0                      | A                       | 3.3                      | A                       |                              |                             |                     | 490             | 219             | 1001 |  |  |
|                              | SBOL     | 108                     | 4.5                      | A                       |                          |                         |                              |                             |                     | 14              | 168             |      |  |  |
|                              | SBOT     | 1007                    | 3.1                      | A                       |                          |                         |                              |                             |                     | 14              | 168             |      |  |  |
|                              | SBOR     | 19                      | 3.8                      | A                       |                          |                         |                              |                             |                     | 14              | 168             |      |  |  |

## 2025 Build PM (Screen 6.2)

| Intersection                          | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|---------------------------------------|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & 4th-3rd Street       | EBL1 (I)  | 52                      | 3.0                      | A                       | 35.7                     | D                       | 24.4                         | C                           |                     | 12              | 150             |  |  |
|                                       | EBL2 (O)  | 83                      | 5.2                      | A                       |                          |                         |                              |                             |                     | 12              | 150             |  |  |
|                                       | EBT       | 274                     | 49.4                     | D                       |                          |                         |                              |                             |                     | 80              | 284             |  |  |
|                                       | EBR1 (I)  | 22                      | 46.4                     | D                       | 30.5                     | C                       |                              |                             |                     | 80              | 284             |  |  |
|                                       | EBR2 (O)  | 19                      | 48.9                     | D                       |                          |                         |                              |                             |                     | 80              | 284             |  |  |
|                                       | WBL1 (I)  | 36                      | 8.2                      | A                       |                          |                         |                              |                             |                     | 26              | 152             |  |  |
|                                       | WBL2 (O)  | 65                      | 9.9                      | A                       | 24.3                     | C                       |                              |                             |                     | 26              | 152             |  |  |
|                                       | WBT       | 282                     | 36.5                     | D                       |                          |                         |                              |                             |                     | 68              | 341             |  |  |
|                                       | WBR1 (I)  | 16                      | 38.4                     | D                       |                          |                         |                              |                             |                     | 68              | 341             |  |  |
|                                       | WBR2 (O)  | 63                      | 35.7                     | D                       | 7.8                      | A                       |                              |                             |                     | 68              | 341             |  |  |
|                                       | NBIL      | 206                     | 44.3                     | D                       |                          |                         |                              |                             |                     | 275             | 678             |  |  |
|                                       | NBIT      | 2133                    | 22.4                     | C                       |                          |                         |                              |                             |                     | 82              | 678             |  |  |
|                                       | NBOT      | 1938                    | 7.7                      | A                       | 34.9                     | C                       |                              |                             |                     | 29              | 321             |  |  |
|                                       | NBOR      | 17                      | 10.7                     | B                       |                          |                         |                              |                             |                     | 29              | 321             |  |  |
|                                       | SBIL      | 47                      | 25.1                     | C                       |                          |                         |                              |                             |                     | 156             | 650             |  |  |
|                                       | SBIT      | 2094                    | 35.1                     | D                       | 26.3                     | C                       |                              |                             |                     | 156             | 650             |  |  |
|                                       | SBOT      | 1051                    | 25.9                     | C                       |                          |                         |                              |                             |                     | 87              | 439             |  |  |
|                                       | SBOR      | 29                      | 41.5                     | D                       |                          |                         |                              |                             |                     | 87              | 439             |  |  |
| Roosevelt Blvd & 2nd St Ped           | WBR       | 25                      | 4.0                      | A                       | 4.0                      | A                       | 2.4                          | A                           |                     | 0               | 42              |  |  |
|                                       | NBIT      | 2522                    | 1.0                      | A                       | 1.0                      | A                       |                              |                             |                     | 3               | 75              |  |  |
|                                       | NBOT      | 1764                    | 4.1                      | A                       | 4.1                      | A                       |                              |                             |                     | 5               | 121             |  |  |
|                                       | SBIT      | 2206                    | 2.5                      | A                       | 2.5                      | A                       |                              |                             |                     | 3               | 131             |  |  |
|                                       | SBOT      | 1182                    | 2.9                      | A                       | 2.9                      | A                       |                              |                             |                     | 4               | 189             |  |  |
| Roosevelt Blvd & Mascher St           | EBL1 (I)  | 106                     | 4.6                      | A                       | 48.1                     | D                       | 10.7                         | B                           |                     | 15              | 142             |  |  |
|                                       | EBL2 (O)  | 91                      | 9.8                      | A                       |                          |                         |                              |                             |                     | 15              | 142             |  |  |
|                                       | EBT       | 596                     | 57.0                     | E                       |                          |                         |                              |                             |                     | 139             | 424             |  |  |
|                                       | EBR1 (I)  | 173                     | 63.4                     | E                       | 9.8                      | A                       |                              |                             |                     | 139             | 424             |  |  |
|                                       | EBR2 (O)  | 9                       | 65.9                     | E                       |                          |                         |                              |                             |                     | 139             | 424             |  |  |
|                                       | NBIT      | 2511                    | 9.8                      | A                       |                          |                         |                              |                             |                     | 580             | 399             |  |  |
|                                       | NBOT      | 1660                    | 5.5                      | A                       | 5.8                      | A                       |                              |                             |                     | 580             | 185             |  |  |
|                                       | NBOR      | 143                     | 9.6                      | A                       |                          |                         |                              |                             |                     | 580             | 185             |  |  |
|                                       | SBIL      | 61                      | 13.8                     | B                       |                          |                         |                              |                             |                     | 10              | 139             |  |  |
|                                       | SBIT      | 2033                    | 2.2                      | A                       | 2.6                      | A                       |                              |                             |                     | 10              | 139             |  |  |
|                                       | SBOT      | 1189                    | 3.5                      | A                       | 3.5                      | A                       |                              |                             |                     | 11              | 132             |  |  |
| Roosevelt Blvd & Front St             | WBL1 (I)  | 61                      | 1.8                      | A                       | 8.5                      | A                       | 8.8                          | A                           |                     | 27              | 167             |  |  |
|                                       | WBL2 (O)  | 100                     | 10.1                     | B                       |                          |                         |                              |                             |                     | 27              | 167             |  |  |
|                                       | WBT       | 696                     | 8.1                      | A                       |                          |                         |                              |                             |                     | 27              | 167             |  |  |
|                                       | WBR1 (I)  | 15                      | 38.9                     | D                       | 8.6                      | A                       |                              |                             |                     | 82              | 392             |  |  |
|                                       | WBR2 (O)  | 4                       | 36.2                     | D                       |                          |                         |                              |                             |                     | 82              | 392             |  |  |
|                                       | NBIL      | 287                     | 12.5                     | B                       |                          |                         |                              |                             |                     | 380             | 86              |  |  |
|                                       | NBIT      | 2327                    | 8.1                      | A                       | 4.0                      | A                       |                              |                             |                     | 475             | 226             |  |  |
|                                       | NBOT      | 1751                    | 4.0                      | A                       |                          |                         |                              |                             |                     | 475             | 160             |  |  |
|                                       | SBIT      | 1941                    | 10.9                     | B                       |                          |                         |                              |                             |                     | 315             | 220             |  |  |
|                                       | SBOT      | 1181                    | 11.6                     | B                       | 10.9                     | B                       |                              |                             |                     | 350             | 236             |  |  |
|                                       | SBOR      | 102                     | 30.9                     | C                       | 13.1                     | B                       |                              |                             |                     | 350             | 236             |  |  |
| Roosevelt Blvd & Rising Sun Ave       | EBL1 (I)  | 51                      | 44.2                     | D                       | 43.7                     | D                       | 24.5                         | C                           |                     | 70              | 224             |  |  |
|                                       | EBL2 (O)  | 16                      | 14.9                     | B                       |                          |                         |                              |                             |                     | 70              | 224             |  |  |
|                                       | EBT       | 179                     | 44.5                     | D                       |                          |                         |                              |                             |                     | 86              | 430             |  |  |
|                                       | EBR1 (I)  | 138                     | 45.8                     | D                       | 9.8                      | A                       |                              |                             |                     | 86              | 430             |  |  |
|                                       | EBR2 (O)  | 57                      | 43.5                     | D                       |                          |                         |                              |                             |                     | 60              | 1               |  |  |
|                                       | WBL1 (I)  | 15                      | 6.9                      | A                       | 22.0                     | C                       |                              |                             |                     | 60              | 1               |  |  |
|                                       | WBL2 (O)  | 17                      | 10.4                     | B                       |                          |                         |                              |                             |                     | 60              | 1               |  |  |
|                                       | WBT       | 369                     | 22.7                     | C                       |                          |                         |                              |                             |                     | 60              | 115             |  |  |
|                                       | WBR1 (I)  | 118                     | 23.4                     | C                       | 48.2                     | D                       |                              |                             |                     | 60              | 115             |  |  |
|                                       | WBR2 (O)  | 37                      | 22.8                     | C                       |                          |                         |                              |                             |                     | 60              | 115             |  |  |
|                                       | NBIL      | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |  |  |
|                                       | NBIT      | 2340                    | 8.0                      | A                       | 8.0                      | A                       |                              |                             |                     | 245             | 284             |  |  |
|                                       | NBOT      | 1668                    | 3.2                      | A                       | 3.2                      | A                       |                              |                             |                     | 230             | 175             |  |  |
|                                       | SBIL      | 172                     | 75.5                     | E                       | 39.3                     | D                       |                              |                             |                     | 250             | 566             |  |  |
|                                       | SBIT      | 1787                    | 45.6                     | D                       |                          |                         |                              |                             |                     | 600             | 190             |  |  |
|                                       | SBOT      | 1211                    | 42.6                     | D                       |                          |                         |                              |                             |                     | 600             | 153             |  |  |
|                                       | SBOR      | 172                     | 15.5                     | B                       | 8.4                      | A                       |                              |                             |                     | 600             | 153             |  |  |
| Roosevelt Blvd & B St Michigan U-Turn | WBR       | 13                      | 0.8                      | A                       | 0.8                      | A                       | 7.3                          | A                           |                     | 0               | 25              |  |  |
|                                       | NBIU1 (I) | 1                       | 67.3                     | E                       | 11.5                     | B                       |                              |                             |                     | 275             | 352             |  |  |
|                                       | NBIU2 (O) | 203                     | 126.7                    | F                       |                          |                         |                              |                             |                     | 275             | 352             |  |  |
|                                       | NBT       | 2304                    | 1.3                      | A                       |                          |                         |                              |                             |                     | 620             | 4               |  |  |
|                                       | NBOT      | 1732                    | 3.1                      | A                       | 3.1                      | A                       |                              |                             |                     | 620             | 3               |  |  |
|                                       | NBOR      | 2                       | 7.4                      | A                       | 8.4                      | A                       |                              |                             |                     | 620             | 71              |  |  |
|                                       | SBIT      | 1963                    | 5.2                      | A                       |                          |                         |                              |                             |                     | 450             | 12              |  |  |
|                                       | SBOT      | 1177                    | 8.4                      | A                       |                          |                         |                              |                             |                     | 450             | 382             |  |  |

## 2025 Build PM (Screen 6.2)

| Intersection                                       | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|--|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & C Street                          | EBL1 (I)  | 78                      | 19.5                     | B                       | 47.2                     | D                       | 29.3                         | C                           |                     | 54              | 205             |  |  |
|  | EBL2 (O)  | 145                     | 20.9                     | C                       |                          |                         |                              |                             |                     | 54              | 205             |  |  |
|  | EBT       | 375                     | 62.0                     | E                       |                          |                         |                              |                             |                     | 88              | 438             |  |  |
|  | EBR1 (I)  | 26                      | 57.3                     | E                       |                          |                         |                              |                             |                     | 88              | 438             |  |  |
|  | EBR2 (O)  | 18                      | 52.7                     | D                       |                          |                         |                              |                             |                     | 88              | 438             |  |  |
|  | WBL1 (I)  | 33                      | 7.2                      | A                       | 92.0                     | F                       |                              |                             |                     | 12              | 99              |  |  |
|  | WBL2 (O)  | 38                      | 10.5                     | B                       |                          |                         |                              |                             |                     | 12              | 99              |  |  |
|  | WBT       | 274                     | 108.0                    | F                       |                          |                         |                              |                             |                     | 226             | 626             |  |  |
|  | WBR1 (I)  | 61                      | 108.6                    | F                       |                          |                         |                              |                             |                     | 226             | 626             |  |  |
|  | WBR2 (O)  | 20                      | 115.8                    | F                       |                          |                         |                              |                             |                     | 226             | 626             |  |  |
|  | NBIL      | 49                      | 12.2                     | B                       | 8.7                      | A                       |                              |                             | 640                 | 38              | 252             |  |  |
|  | NBIT      | 2252                    | 8.6                      | A                       |                          |                         |                              |                             | 640                 | 37              | 249             |  |  |
|  | NBOT      | 1706                    | 8.8                      | A                       | 8.9                      | A                       |                              |                             | 640                 | 32              | 289             |  |  |
|  | NBOR      | 39                      | 10.8                     | B                       |                          |                         |                              |                             | 640                 | 32              | 289             |  |  |
|  | SBIL      | 169                     | 204.1                    | F                       | 50.1                     | D                       |                              |                             | 255                 | 263             | 731             |  |  |
|  | SBIT      | 1874                    | 36.2                     | D                       |                          |                         |                              |                             | 775                 | 202             | 772             |  |  |
|  | SBOT      | 1150                    | 31.9                     | C                       | 31.4                     | C                       |                              |                             | 785                 | 104             | 527             |  |  |
|  | SBOR      | 168                     | 27.9                     | C                       |                          |                         |                              |                             | 785                 | 104             | 527             |  |  |
| Roosevelt Blvd & Rorer St - D St                   | WBR       | 39                      | 1.1                      | A                       | 1.1                      | A                       | 4.2                          | A                           |                     | 0               | 32              |  |  |
|  | NBIT      | 2390                    | 2.8                      | A                       | 2.8                      | A                       |                              |                             | 680                 | 3               | 69              |  |  |
|  | NBOT      | 1857                    | 4.9                      | A                       | 4.9                      | A                       |                              |                             | 680                 | 11              | 220             |  |  |
|  | NBOR      | 4                       | 13.8                     | B                       | 4.9                      | A                       |                              |                             | 680                 | 11              | 220             |  |  |
|  | SBIT      | 2050                    | 6.9                      | A                       | 6.9                      | A                       |                              |                             | 1150                | 9               | 210             |  |  |
|  | SBOT      | 1121                    | 1.2                      | A                       | 1.2                      | A                       |                              |                             | 1160                | 6               | 128             |  |  |
| Roosevelt Blvd & F Street                          | EBL1 (I)  | 79                      | 21.6                     | C                       | 45.9                     | D                       | 31.6                         | C                           |                     | 52              | 191             |  |  |
|  | EBL2 (O)  | 84                      | 17.7                     | B                       |                          |                         |                              |                             |                     | 52              | 191             |  |  |
|  | EBL3      | 21                      | 11.0                     | B                       |                          |                         |                              |                             |                     | 52              | 191             |  |  |
|  | EBT       | 357                     | 57.4                     | E                       |                          |                         |                              |                             |                     | 102             | 477             |  |  |
|  | EBR1 (I)  | 98                      | 54.6                     | D                       | 36.6                     | D                       |                              |                             |                     | 102             | 477             |  |  |
|  | EBR2 (O)  | 4                       | 62.7                     | E                       |                          |                         |                              |                             |                     | 102             | 477             |  |  |
|  | WBL1 (I)  | 29                      | 4.7                      | A                       |                          |                         |                              |                             |                     | 26              | 164             |  |  |
|  | WBL2 (O)  | 63                      | 12.2                     | B                       |                          |                         |                              |                             |                     | 26              | 164             |  |  |
|  | WBT       | 373                     | 42.8                     | D                       |                          |                         |                              |                             |                     | 92              | 418             |  |  |
|  | WBR1 (I)  | 8                       | 43.4                     | D                       |                          |                         |                              |                             |                     | 92              | 418             |  |  |
|  | WBR2 (O)  | 12                      | 44.5                     | D                       |                          |                         |                              |                             |                     | 92              | 418             |  |  |
|  | NBIL      | 258                     | 64.7                     | E                       | 12.3                     | B                       |                              |                             | 170                 | 81              | 419             |  |  |
|  | NBIT      | 2157                    | 6.1                      | A                       |                          |                         |                              |                             | 1275                | 14              | 176             |  |  |
|  | NBOT      | 1815                    | 9.0                      | A                       | 8.9                      | A                       |                              |                             | 1275                | 46              | 259             |  |  |
|  | NBOBR     | 9                       | 8.8                      | A                       |                          |                         |                              |                             | 1275                | 45              | 260             |  |  |
|  | NBOR      | 38                      | 6.6                      | A                       | 57.2                     | E                       |                              |                             | 1275                | 46              | 259             |  |  |
|  | SBIL      | 133                     | 66.7                     | E                       |                          |                         |                              |                             | 1050                | 277             | 735             |  |  |
|  | SBIT      | 2103                    | 56.6                     | E                       |                          |                         |                              |                             | 1050                | 277             | 735             |  |  |
|  | SBOT      | 1022                    | 50.2                     | D                       | 49.9                     | D                       |                              |                             | 1000                | 147             | 521             |  |  |
|  | SBOR      | 60                      | 44.6                     | D                       |                          |                         |                              |                             | 1000                | 147             | 521             |  |  |
| Roosevelt Blvd & Whitaker Ave (South) - Garland St | EBR       | 7                       | 2.2                      | A                       | 2.2                      | A                       | 14.8                         | B                           |                     | 0               | 53              |  |  |
|  | WBR1 (I)  | 517                     | 46.4                     | D                       | 47.3                     | D                       |                              |                             |                     | 95              | 330             |  |  |
|  | WBR2 (O)  | 102                     | 52.1                     | D                       |                          |                         |                              |                             |                     | 95              | 330             |  |  |
|  | NBIT      | 2238                    | 5.1                      | A                       |                          |                         |                              |                             | 1080                | 5               | 114             |  |  |
|  | NBOT      | 1870                    | 28.9                     | C                       | 15.9                     | B                       |                              |                             | 1080                | 174             | 630             |  |  |
|  | NBOR      | 33                      | 16.3                     | B                       |                          |                         |                              |                             | 1080                | 174             | 630             |  |  |
|  | SBU1 (I)  | 0                       | 0.0                      | A                       | 44.2                     | D                       |                              |                             |                     | 62              | 230             |  |  |
|  | SBU2 (O)  | 3                       | 34.4                     | C                       |                          |                         |                              |                             |                     | 62              | 230             |  |  |
|  | SBL       | 452                     | 44.3                     | D                       |                          |                         |                              |                             | 320                 | 62              | 230             |  |  |
|  | SBIT      | 2074                    | 3.0                      | A                       | 3.0                      | A                       |                              |                             | 450                 | 18              | 140             |  |  |
|  | SBOT      | 1075                    | 2.5                      | A                       | 2.5                      | A                       |                              |                             | 470                 | 9               | 105             |  |  |
|  | SBOR      | 1                       | 1.4                      | A                       |                          |                         |                              |                             | 470                 | 9               | 105             |  |  |
| Roosevelt Blvd & Whitaker Ave (North) - Adams Ave  | EBL1 (I)  | 99                      | 0.8                      | A                       | 20.3                     | C                       | 20.0                         | B                           |                     | 1               | 153             |  |  |
|  | EBL2 (O)  | 406                     | 9.5                      | A                       |                          |                         |                              |                             |                     | 1               | 153             |  |  |
|  | EBR1 (I)  | 309                     | 39.3                     | D                       |                          |                         |                              |                             |                     | 60              | 215             |  |  |
|  | EBR2 (O)  | 32                      | 33.1                     | C                       | 14.1                     | B                       |                              |                             |                     | 67              | 227             |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 63              | 367             |  |  |
|  | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 63              | 367             |  |  |
|  | NBIL      | 394                     | 20.8                     | C                       |                          |                         |                              |                             | 245                 | 63              | 367             |  |  |
|  | NBIT      | 2360                    | 12.9                     | B                       | 33.3                     | C                       |                              |                             | 265                 | 89              | 582             |  |  |
|  | NBOT      | 1967                    | 33.3                     | C                       |                          |                         |                              |                             | 290                 | 170             | 598             |  |  |
|  | SBIT      | 2221                    | 18.6                     | B                       |                          |                         |                              |                             | 780                 | 74              | 575             |  |  |
|  | SBOT      | 1204                    | 14.9                     | B                       | 16.0                     | B                       |                              |                             | 800                 | 50              | 432             |  |  |
|  | SBOR      | 563                     | 18.4                     | B                       |                          |                         |                              |                             | 800                 | 50              | 432             |  |  |

## 2025 Build PM (Screen 6.2)

| Intersection                                | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |     |
|---|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|-----|
| Roosevelt BLvd & Tower Blvd                 | EBR       | 166                     | 15.4                     | B                       | 15.4                     | B                       | 19.6                         | B                           |                     | 9               | 71              |     |
|   | NBIU1 (I) | 1                       | 31.6                     | C                       |                          |                         |                              |                             |                     | 25              | 148             |     |
|   | NBIU2 (O) | 2                       | 51.6                     | D                       |                          |                         |                              |                             |                     | 25              | 148             |     |
|   | NBIL      | 213                     | 46.1                     | D                       |                          |                         |                              |                             | 320                 | 28              | 149             |     |
|   | NBIT      | 2242                    | 6.8                      | A                       |                          |                         |                              |                             | 950                 | 15              | 233             |     |
|   | NBOT      | 2376                    | 41.6                     | D                       | 41.6                     | D                       |                              |                             | 950                 | 403             | 1029            |     |
|   | SBIU1 (I) | 34                      | 42.7                     | D                       |                          |                         |                              |                             | 200                 | 25              | 195             |     |
|   | SBIU1 (O) | 95                      | 46.3                     | D                       |                          |                         |                              |                             | 200                 | 25              | 195             |     |
|   | SBIT      | 2220                    | 12.6                     | B                       |                          |                         |                              |                             | 580                 | 48              | 402             |     |
|   | SBOT      | 1596                    | 10.2                     | B                       |                          |                         |                              |                             | 580                 | 33              | 308             |     |
| Roosevelt Blvd & Langdon St                 | SBOR      | 91                      | 6.1                      | A                       |                          |                         | 16.3                         | B                           |                     | 580             | 33              | 308 |
|   | EBL1 (I)  | 181                     | 1.0                      | A                       |                          |                         |                              |                             |                     | 1               | 171             |     |
|   | EBL2 (O)  | 261                     | 1.7                      | A                       |                          |                         |                              |                             |                     | 0               | 141             |     |
|   | EBT       | 447                     | 69.4                     | E                       |                          |                         |                              |                             | 200                 | 135             | 510             |     |
|   | EBR1 (I)  | 58                      | 70.1                     | E                       |                          |                         |                              |                             |                     | 135             | 510             |     |
|   | EBR2 (O)  | 4                       | 65.1                     | E                       |                          |                         |                              |                             |                     | 135             | 510             |     |
|   | WBL1 (I)  | 34                      | 15.0                     | B                       |                          |                         |                              |                             |                     | 3               | 142             |     |
|   | WBL2 (O)  | 34                      | 12.3                     | B                       |                          |                         |                              |                             |                     | 2               | 87              |     |
|   | WBT       | 78                      | 42.9                     | D                       |                          |                         |                              |                             | 200                 | 26              | 168             |     |
|   | WBR1 (I)  | 25                      | 40.4                     | D                       |                          |                         |                              |                             |                     | 26              | 168             |     |
|   | WBR2 (O)  | 16                      | 44.4                     | D                       |                          |                         |                              |                             |                     | 26              | 168             |     |
|   | NBLU1 (I) | 0                       | 5.5                      | A                       |                          |                         |                              |                             |                     | 45              | 164             |     |
|   | NBLU2 (O) | 1                       | 66.1                     | E                       |                          |                         |                              |                             |                     | 45              | 164             |     |
|   | NBIL      | 73                      | 112.4                    | F                       |                          |                         |                              |                             | 190                 | 45              | 164             |     |
|   | NBIT      | 2203                    | 6.3                      | A                       |                          |                         |                              |                             | 1525                | 23              | 259             |     |
|   | NBOT      | 2462                    | 25.8                     | C                       |                          |                         |                              |                             | 1525                | 234             | 658             |     |
|   | NBOR      | 14                      | 24.1                     | C                       |                          |                         |                              |                             | 1480                | 234             | 658             |     |
|   | SBIL      | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |     |
|   | SBIT      | 2281                    | 6.5                      | A                       |                          |                         |                              |                             | 400                 | 26              | 214             |     |
|   | SBOT      | 1628                    | 9.8                      | A                       |                          |                         |                              |                             | 415                 | 44              | 387             |     |
|   | SBOR      | 333                     | 17.7                     | B                       |                          |                         |                              |                             | 415                 | 44              | 387             |     |
| Roosevelt Blvd & Summerdale Ave - Adams Ave | EBL1 (I)  | 3                       | 2.8                      | A                       |                          |                         | 17.3                         | B                           |                     | 0               | 51              |     |
|   | EBL2 (O)  | 8                       | 3.9                      | A                       |                          |                         |                              |                             |                     | 0               | 51              |     |
|   | EBT       | 222                     | 35.9                     | D                       |                          |                         |                              |                             | 1700                | 59              | 290             |     |
|   | EBR1 (I)  | 132                     | 35.9                     | D                       |                          |                         |                              |                             | 300                 | 59              | 290             |     |
|   | EBR2 (O)  | 244                     | 38.1                     | D                       |                          |                         |                              |                             | 300                 | 59              | 290             |     |
|   | WBL1 (I)  | 71                      | 0.3                      | A                       |                          |                         |                              |                             | 730                 | 0               | 31              |     |
|   | WBL2 (O)  | 430                     | 5.2                      | A                       |                          |                         |                              |                             | 730                 | 0               | 31              |     |
|   | WBT       | 214                     | 43.8                     | D                       |                          |                         |                              |                             | 120                 | 65              | 479             |     |
|   | WBR1 (I)  | 10                      | 66.2                     | E                       |                          |                         |                              |                             | 730                 | 130             | 450             |     |
|   | WBR2 (O)  | 4                       | 67.3                     | E                       |                          |                         |                              |                             | 730                 | 130             | 450             |     |
|   | NBIL      | 381                     | 110.9                    | F                       |                          |                         |                              |                             | 315                 | 130             | 367             |     |
|   | NBIT      | 2029                    | 12.7                     | B                       |                          |                         |                              |                             | 450                 | 53              | 359             |     |
|   | NBOT      | 2237                    | 21.5                     | C                       |                          |                         |                              |                             | 450                 | 167             | 578             |     |
|   | NBOR      | 502                     | 27.6                     | C                       |                          |                         |                              |                             | 450                 | 12              | 452             |     |
|   | SBIL      | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |     |
|   | SBIT      | 2160                    | 1.8                      | A                       |                          |                         |                              |                             | 950                 | 6               | 92              |     |
|   | SBOT      | 1721                    | 7.2                      | A                       |                          |                         |                              |                             | 950                 | 28              | 168             |     |
|   | SBOR      | 88                      | 1.5                      | A                       |                          |                         |                              |                             | 950                 | 28              | 168             |     |
| Roosevelt Blvd & Pratt Street               | EBL1 (I)  | 2                       | 1.8                      | A                       |                          |                         | 14.3                         | B                           |                     | 25              | 133             |     |
|   | EBL2 (O)  | 16                      | 13.0                     | B                       |                          |                         |                              |                             |                     | 25              | 133             |     |
|   | EBT       | 78                      | 40.4                     | D                       |                          |                         |                              |                             |                     | 22              | 151             |     |
|   | EBR1 (I)  | 16                      | 40.5                     | D                       |                          |                         |                              |                             |                     | 22              | 151             |     |
|   | EBR2 (O)  | 19                      | 38.0                     | D                       |                          |                         |                              |                             |                     | 22              | 151             |     |
|   | WBL1 (I)  | 83                      | 6.2                      | A                       |                          |                         |                              |                             |                     | 23              | 127             |     |
|   | WBL2 (O)  | 54                      | 8.4                      | A                       |                          |                         |                              |                             |                     | 23              | 127             |     |
|   | WBT       | 216                     | 38.1                     | D                       |                          |                         |                              |                             |                     | 80              | 405             |     |
|   | WBR1 (I)  | 151                     | 38.0                     | D                       |                          |                         |                              |                             |                     | 80              | 405             |     |
|   | WBR2 (O)  | 2                       | 35.6                     | D                       |                          |                         |                              |                             |                     | 80              | 405             |     |
|   | NBIL      | 82                      | 48.6                     | D                       |                          |                         |                              |                             |                     | 140             | 22              | 167 |
|   | NBIT      | 2124                    | 4.3                      | A                       |                          |                         |                              |                             |                     | 1140            | 22              | 167 |
|   | NBOT      | 2120                    | 16.5                     | B                       |                          |                         |                              |                             |                     | 1140            | 74              | 524 |
|   | NBOR      | 142                     | 14.7                     | B                       |                          |                         |                              |                             |                     | 1140            | 74              | 524 |
|   | SBIL      | 67                      | 23.9                     | C                       |                          |                         |                              |                             |                     | 500             | 78              | 259 |
|   | SBIT      | 2003                    | 15.7                     | B                       |                          |                         |                              |                             |                     | 500             | 78              | 259 |
|   | SBOT      | 1230                    | 14.4                     | B                       |                          |                         |                              |                             |                     | 500             | 46              | 294 |
|   | SBOR      | 25                      | 10.1                     | B                       |                          |                         |                              |                             |                     | 500             | 46              | 294 |

## 2025 Build PM (Screen 6.2)

| Intersection                                       | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|--|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Bridge Street                     | EBL1 (I) | 8                       | 4.3                      | A                       | 39.8                     | D                       | 18.0                         | B                           |                     | 19              | 116             |  |  |
|  | EBL2 (O) | 41                      | 23.4                     | C                       |                          |                         |                              |                             |                     | 19              | 116             |  |  |
|  | EBT      | 148                     | 43.4                     | D                       |                          |                         |                              |                             |                     | 51              | 254             |  |  |
|  | EBR1 (I) | 54                      | 46.1                     | D                       |                          |                         |                              |                             |                     | 51              | 254             |  |  |
|  | EBR2 (O) | 24                      | 42.8                     | D                       |                          |                         |                              |                             |                     | 51              | 254             |  |  |
|  | WBL1 (I) | 13                      | 2.3                      | A                       | 26.3                     | C                       |                              |                             |                     | 63              | 188             |  |  |
|  | WBL2 (O) | 30                      | 3.3                      | A                       |                          |                         |                              |                             |                     | 63              | 188             |  |  |
|  | WBT      | 159                     | 31.4                     | C                       |                          |                         |                              |                             |                     | 33              | 246             |  |  |
|  | WBR1 (I) | 22                      | 35.1                     | D                       |                          |                         |                              |                             |                     | 33              | 246             |  |  |
|  | WBR2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 33              | 246             |  |  |
|  | NBIL     | 142                     | 49.6                     | D                       | 11.3                     | B                       |                              |                             | 510                 | 49              | 308             |  |  |
|  | NBIT     | 2057                    | 8.6                      | A                       |                          |                         |                              |                             | 510                 | 49              | 308             |  |  |
|  | NBOT     | 2162                    | 7.8                      | A                       |                          |                         |                              |                             |                     | 46              | 191             |  |  |
|  | NBOR     | 50                      | 9.0                      | A                       |                          |                         |                              |                             |                     | 46              | 191             |  |  |
|  | SBIL     | 119                     | 34.0                     | C                       |                          |                         |                              |                             |                     | 97              | 446             |  |  |
|  | SBIT     | 1972                    | 31.3                     | C                       |                          |                         |                              |                             |                     | 97              | 446             |  |  |
|  | SBOT     | 1236                    | 19.4                     | B                       |                          |                         |                              |                             |                     | 66              | 439             |  |  |
|  | SBOR     | 16                      | 12.5                     | B                       |                          |                         |                              |                             |                     | 66              | 439             |  |  |
| Roosevelt Blvd & Sanger St Ped                     | NBOT     | 2204                    | 12.2                     | B                       | 12.2                     | B                       |                              |                             |                     | 39              | 540             |  |  |
|  | SBOT     | 1218                    | 1.7                      | A                       | 1.7                      | A                       |                              |                             | 8.4                 | 3               | 144             |  |  |
|  | SBOR     | 4                       | 1.9                      | A                       |                          |                         |                              |                             |                     | 3               | 144             |  |  |
| Roosevelt Blvd NB & Oxford Circle & Oxford Ave     | EBL      | 123                     | 15.7                     | B                       | 9.1                      | A                       | 16.8                         | B                           |                     | 14              | 155             |  |  |
|  | EBT      | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 14              | 155             |  |  |
|  | EBC      | 408                     | 7.1                      | A                       |                          |                         |                              |                             |                     | 14              | 155             |  |  |
|  | WBR      | 498                     | 17.4                     | B                       | 17.4                     | B                       |                              |                             |                     | 18              | 443             |  |  |
|  | NBOT     | 2103                    | 11.1                     | B                       | 11.5                     | B                       |                              |                             |                     | 72              | 330             |  |  |
|  | NBOR     | 158                     | 17.0                     | B                       |                          |                         |                              |                             |                     | 72              | 330             |  |  |
| Roosevelt Blvd NB & Oxford Circle & Cheltenham Ave | NBOHR    | 1                       | 3.8                      | A                       |                          |                         |                              |                             |                     | 72              | 330             |  |  |
|  | WBR      | 101                     | 392.8                    | F                       | 392.8                    | F                       |                              |                             |                     | 227             | 263             |  |  |
|  | NBOL     | 385                     | 8.8                      | A                       | 6.8                      | A                       |                              |                             |                     | 33              | 252             |  |  |
|  | NBOT     | 1840                    | 6.4                      | A                       |                          |                         |                              |                             |                     | 31              | 246             |  |  |
|  | NBT      | 497                     | 29.1                     | C                       | 22.2                     | C                       |                              |                             |                     | 47              | 235             |  |  |
| Roosevelt Blvd SB & Oxford Circle                  | NBR      | 323                     | 11.5                     | B                       |                          |                         |                              |                             |                     | 62              | 318             |  |  |
|  | SBOL     | 122                     | 6.0                      | A                       | 6.4                      | A                       |                              |                             |                     | 14              | 160             |  |  |
|  | SBOT     | 938                     | 6.5                      | A                       |                          |                         |                              |                             |                     | 14              | 155             |  |  |
|  | SBT      | 552                     | 35.8                     | D                       | 29.2                     | C                       |                              |                             |                     | 143             | 600             |  |  |
| Roosevelt Blvd SB & Oxford Circle & Castor Ave     | SBR      | 284                     | 16.2                     | B                       |                          |                         |                              |                             |                     | 143             | 600             |  |  |
|  | EBC      | 389                     | 15.1                     | B                       | 15.1                     | B                       |                              |                             |                     | 23              | 217             |  |  |
|  | WBL      | 171                     | 5.5                      | A                       | 11.7                     | B                       |                              |                             |                     | 17              | 129             |  |  |
|  | WBT      | 301                     | 14.2                     | B                       |                          |                         |                              |                             |                     | 17              | 129             |  |  |
|  | WBR      | 508                     | 12.2                     | B                       | 19.1                     | B                       |                              |                             |                     | 20              | 158             |  |  |
|  | SBOT     | 889                     | 19.0                     | B                       |                          |                         |                              |                             |                     | 425             | 56              |  |  |
| Roosevelt Blvd & Large Street                      | SBOR     | 63                      | 20.6                     | C                       |                          |                         |                              |                             |                     | 425             | 554             |  |  |
|  | SBOHR    | 15                      | 18.4                     | B                       |                          |                         |                              |                             |                     | 425             | 553             |  |  |
|  | EBC1 (I) | 2                       | 38.5                     | D                       | 36.6                     | D                       | 29.2                         | C                           |                     | 22              | 138             |  |  |
|  | EBC2 (O) | 45                      | 10.6                     | B                       |                          |                         |                              |                             |                     | 22              | 138             |  |  |
|  | EBT      | 229                     | 40.5                     | D                       |                          |                         |                              |                             |                     | 67              | 358             |  |  |
|  | EBC1 (I) | 81                      | 39.2                     | D                       |                          |                         |                              |                             |                     | 67              | 358             |  |  |
|  | EBC2 (O) | 17                      | 41.3                     | D                       |                          |                         |                              |                             |                     | 67              | 358             |  |  |
|  | WBL1 (I) | 18                      | 4.6                      | A                       | 19.2                     | B                       |                              |                             |                     | 41              | 180             |  |  |
|  | WBL2 (O) | 16                      | 4.9                      | A                       |                          |                         |                              |                             |                     | 41              | 180             |  |  |
|  | WBT      | 216                     | 22.5                     | C                       |                          |                         |                              |                             |                     | 83              | 301             |  |  |
|  | WBR1 (I) | 40                      | 20.4                     | C                       | 37.9                     | D                       |                              |                             |                     | 83              | 301             |  |  |
|  | WBR2 (O) | 67                      | 15.4                     | B                       |                          |                         |                              |                             |                     | 83              | 301             |  |  |
|  | NBIL     | 276                     | 94.5                     | F                       |                          |                         |                              |                             |                     | 127             | 483             |  |  |
|  | NBIT     | 1801                    | 35.2                     | D                       | 43.1                     | D                       |                              |                             |                     | 111             | 570             |  |  |
|  | NBOT     | 1870                    | 8.4                      | A                       | 8.4                      | A                       |                              |                             |                     | 51              | 162             |  |  |
|  | SBIL     | 109                     | 47.9                     | D                       | 21.6                     | C                       |                              |                             |                     | 162             | 663             |  |  |
|  | SBIT     | 1996                    | 37.4                     | D                       |                          |                         |                              |                             |                     | 159             | 656             |  |  |
|  | SBOT     | 912                     | 22.4                     | C                       |                          |                         |                              |                             |                     | 56              | 448             |  |  |
|  | SBOR     | 67                      | 10.4                     | B                       |                          |                         |                              |                             |                     | 47              | 443             |  |  |

## 2025 Build PM (Screen 6.2)

| Intersection                      | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|-----------------------------------|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Devereaux Street | EBL1 (I) | 229                     | 3.3                      | A                       | 32.5                     | C                       | 15.3                         | B                           |                     | 3               | 74              |  |  |
|                                   | EBL2 (O) | 21                      | 10.1                     | B                       |                          |                         |                              |                             |                     | 3               | 74              |  |  |
|                                   | EBT      | 548                     | 45.2                     | D                       |                          |                         |                              |                             |                     | 81              | 404             |  |  |
|                                   | EBR1 (I) | 9                       | 44.9                     | D                       | 34.9                     | C                       |                              |                             |                     | 81              | 404             |  |  |
|                                   | EBR2 (O) | 8                       | 37.5                     | D                       |                          |                         |                              |                             |                     | 81              | 404             |  |  |
|                                   | WBL1 (I) | 87                      | 18.0                     | B                       |                          |                         |                              |                             |                     | 570             | 22              |  |  |
|                                   | WBL2 (O) | 91                      | 20.9                     | C                       | 9.8                      | A                       |                              |                             |                     | 570             | 22              |  |  |
|                                   | WBT      | 378                     | 42.1                     | D                       |                          |                         |                              |                             |                     | 570             | 52              |  |  |
|                                   | WBR1 (I) | 0                       | 4.8                      | A                       |                          |                         |                              |                             |                     | 570             | 52              |  |  |
|                                   | WBR2 (O) | 12                      | 40.6                     | D                       | 8.7                      | A                       |                              |                             |                     | 16              | 206             |  |  |
|                                   | NBIL     | 86                      | 15.1                     | B                       |                          |                         |                              |                             |                     | 19              | 209             |  |  |
|                                   | NBIT     | 1751                    | 9.5                      | A                       |                          |                         |                              |                             |                     | 31              | 257             |  |  |
|                                   | NBOT     | 1831                    | 8.2                      | A                       | 16.4                     | B                       |                              |                             |                     | 31              | 257             |  |  |
|                                   | NBOR     | 298                     | 12.2                     | B                       |                          |                         |                              |                             |                     | 55              | 317             |  |  |
|                                   | SBIL     | 20                      | 21.9                     | C                       |                          |                         |                              |                             |                     | 55              | 317             |  |  |
|                                   | SBIT     | 2071                    | 16.4                     | B                       | 11.2                     | B                       |                              |                             |                     | 20              | 180             |  |  |
|                                   | SBOT     | 804                     | 11.1                     | B                       |                          |                         |                              |                             |                     | 20              | 182             |  |  |
|                                   | SBOR     | 53                      | 13.8                     | B                       |                          |                         |                              |                             |                     | N/A             | N/A             |  |  |
|                                   | SBOHR    | N/A                     | N/A                      | N/A                     | N/A                      | N/A                     |                              |                             |                     | N/A             | N/A             |  |  |
|                                   | SEBR     | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |  |  |
|                                   | EBL1 (I) | 4                       | 38.5                     | D                       |                          |                         |                              |                             |                     | 38              | 168             |  |  |
| Roosevelt Blvd & Bustleton Ave    | EBL2 (O) | 22                      | 29.9                     | C                       | 6.6                      | A                       | 10.0                         | B                           |                     | 38              | 168             |  |  |
|                                   | EBT      | 387                     | 4.0                      | A                       |                          |                         |                              |                             |                     | 12              | 154             |  |  |
|                                   | EBR1 (I) | 177                     | 8.5                      | A                       |                          |                         |                              |                             |                     | 12              | 154             |  |  |
|                                   | EBR2 (O) | 55                      | 7.4                      | A                       | 4.0                      | A                       |                              |                             |                     | 12              | 154             |  |  |
|                                   | WBL1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 65              | 33              |  |  |
|                                   | WBL2 (O) | 4                       | 11.3                     | B                       |                          |                         |                              |                             |                     | 65              | 33              |  |  |
|                                   | WBT      | 407                     | 3.4                      | A                       |                          |                         |                              |                             |                     | 7               | 83              |  |  |
|                                   | WBR1 (I) | 34                      | 5.1                      | A                       | 11.6                     | B                       |                              |                             |                     | 7               | 83              |  |  |
|                                   | WBR2 (O) | 63                      | 6.2                      | A                       |                          |                         |                              |                             |                     | 200             | 37              |  |  |
|                                   | NBIL     | 307                     | 34.2                     | C                       |                          |                         |                              |                             |                     | 15              | 263             |  |  |
|                                   | NBIT     | 1463                    | 6.9                      | A                       | 5.7                      | A                       |                              |                             |                     | 24              | 118             |  |  |
|                                   | NBOT     | 1405                    | 5.7                      | A                       |                          |                         |                              |                             |                     | 49              | 165             |  |  |
|                                   | SBIL     | 164                     | 60.5                     | E                       |                          |                         |                              |                             |                     | 46              | 188             |  |  |
| Bustleton Ave & Robbins Street    | SBIT     | 1914                    | 11.5                     | B                       | 15.4                     | B                       |                              |                             |                     | 12              | 230             |  |  |
|                                   | SBOT     | 780                     | 6.5                      | A                       |                          |                         |                              |                             |                     | 12              | 121             |  |  |
|                                   | EBL      | 87                      | 1.9                      | A                       |                          |                         |                              |                             |                     | 2               | 73              |  |  |
|                                   | EBT      | 438                     | 0.6                      | A                       | 0.8                      | A                       | 16.9                         | B                           |                     | 2               | 73              |  |  |
|                                   | WBT      | 503                     | 43.4                     | D                       |                          |                         |                              |                             |                     | 76              | 317             |  |  |
|                                   | WBR      | 27                      | 46.5                     | D                       |                          |                         |                              |                             |                     | 76              | 317             |  |  |
| Bustleton Ave & Levick Street     | NBL      | N/A                     | N/A                      | N/A                     | 43.6                     | D                       |                              |                             |                     | N/A             | N/A             |  |  |
|                                   | NBT      | 659                     | 8.3                      | A                       |                          |                         |                              |                             |                     | 30              | 139             |  |  |
|                                   | NBR      | 4                       | 20.2                     | C                       |                          |                         |                              |                             |                     | 30              | 139             |  |  |
|                                   | EBT      | 620                     | 47.7                     | D                       | 47.6                     | D                       | 17.6                         | B                           |                     | 87              | 408             |  |  |
|                                   | EBC      | 39                      | 46.8                     | D                       |                          |                         |                              |                             |                     | 87              | 408             |  |  |
|                                   | WBL      | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |  |  |
| Roosevelt Blvd & Levick St        | WBT      | 710                     | 0.4                      | A                       | 0.4                      | A                       |                              |                             |                     | 0               | 23              |  |  |
|                                   | SBL      | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |  |  |
|                                   | SBT      | 482                     | 4.5                      | A                       |                          |                         |                              |                             |                     | 22              | 114             |  |  |
|                                   | SBR      | 77                      | 2.8                      | A                       | 4.2                      | A                       |                              |                             |                     | 22              | 114             |  |  |
|                                   | WBL1 (I) | 586                     | 33.6                     | C                       |                          |                         |                              |                             |                     | 72              | 332             |  |  |
|                                   | WBL2 (O) | 488                     | 35.8                     | D                       |                          |                         |                              |                             |                     | 63              | 318             |  |  |
|                                   | WBR      | 37                      | 26.9                     | C                       | 34.3                     | C                       | 27.5                         | C                           |                     | 66              | 326             |  |  |
|                                   | NBIT     | 1503                    | 4.1                      | A                       |                          |                         |                              |                             |                     | 13              | 82              |  |  |
|                                   | NBOT     | 1491                    | 9.1                      | A                       |                          |                         |                              |                             |                     | 37              | 201             |  |  |
|                                   | SBIT     | 1493                    | 53.2                     | D                       |                          |                         |                              |                             |                     | 167             | 539             |  |  |
|                                   | SBOT     | 854                     | 47.1                     | D                       |                          |                         |                              |                             |                     | 81              | 292             |  |  |

## 2025 Build PM (Screen 6.2)

| Intersection                       | Movement | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |     |     |  |  |
|------------------------------------|----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|-----|-----|--|--|
| Roosevelt Blvd & Haribson Ave      | EBL1 (I) | 62                      | 15.5                     | B                       | 39.1                     | D                       | 26.2                         | C                           |                     | 1               | 73              |     |     |  |  |
|                                    | EBL2 (O) | 8                       | 14.7                     | B                       |                          |                         |                              |                             |                     | 1               | 73              |     |     |  |  |
|                                    | EBT      | 610                     | 41.9                     | D                       |                          |                         |                              |                             |                     | 78              | 304             |     |     |  |  |
|                                    | EBR1 (I) | 4                       | 33.5                     | C                       | 32.1                     | C                       |                              |                             |                     | 78              | 304             |     |     |  |  |
|                                    | EBR2 (O) | 8                       | 43.0                     | D                       |                          |                         |                              |                             |                     | 78              | 304             |     |     |  |  |
|                                    | WBL1 (I) | 43                      | 9.5                      | A                       |                          |                         |                              |                             |                     | 4               | 109             |     |     |  |  |
|                                    | WBL2 (O) | 93                      | 10.0                     | A                       | 14.6                     | B                       |                              |                             |                     | 4               | 109             |     |     |  |  |
|                                    | WBT      | 595                     | 48.7                     | D                       |                          |                         |                              |                             |                     | 111             | 378             |     |     |  |  |
|                                    | WBR1 (I) | 105                     | 56.6                     | E                       |                          |                         |                              |                             |                     | 111             | 378             |     |     |  |  |
|                                    | WBR2 (O) | 365                     | 6.3                      | A                       | 17.8                     | B                       |                              |                             |                     | 2               | 164             |     |     |  |  |
|                                    | NBIL     | N/A                     | N/A                      | N/A                     |                          |                         |                              |                             |                     | N/A             | N/A             |     |     |  |  |
|                                    | NBIT     | 1508                    | 14.6                     | B                       |                          |                         |                              |                             |                     | 41              | 261             |     |     |  |  |
|                                    | NBOT     | 1380                    | 18.9                     | B                       | 35.1                     | D                       |                              |                             |                     | 74              | 337             |     |     |  |  |
|                                    | NBOR     | 147                     | 6.7                      | A                       |                          |                         |                              |                             |                     | 26              | 329             |     |     |  |  |
|                                    | SBIL     | 342                     | 76.7                     | E                       |                          |                         |                              |                             |                     | 80              | 218             |     |     |  |  |
|                                    | SBIT     | 1390                    | 24.9                     | C                       | 25.4                     | C                       |                              |                             |                     | 75              | 371             |     |     |  |  |
|                                    | SBOT     | 856                     | 25.8                     | C                       |                          |                         |                              |                             |                     | 67              | 374             |     |     |  |  |
|                                    | SBOR     | 33                      | 15.1                     | B                       |                          |                         |                              |                             |                     | 67              | 374             |     |     |  |  |
| Roosevelt Blvd & Unruh Ave Ped     | WBR      | 17                      | 0.9                      | A                       | 0.9                      | A                       | 3.2                          | A                           |                     | 0               | 24              |     |     |  |  |
|                                    | NBIT     | 1621                    | 2.3                      | A                       | 2.3                      | A                       |                              |                             |                     | 1               | 56              |     |     |  |  |
|                                    | NBOT     | 1664                    | 1.8                      | A                       | 1.8                      | A                       |                              |                             |                     | 2               | 149             |     |     |  |  |
|                                    | NBOR     | 143                     | 2.2                      | A                       | 1.8                      | A                       |                              |                             |                     | 2               | 149             |     |     |  |  |
|                                    | SBIT     | 1730                    | 4.8                      | A                       | 4.8                      | A                       |                              |                             |                     | 3               | 147             |     |     |  |  |
|                                    | SBOT     | 880                     | 4.3                      | A                       | 4.3                      | A                       |                              |                             |                     | 5               | 165             |     |     |  |  |
|                                    | SBOR     | 80                      | 4.7                      | A                       |                          |                         |                              |                             |                     | 5               | 165             |     |     |  |  |
| Roosevelt Blvd & Longshore Ave Ped | WBR      | 88                      | 5.3                      | A                       | 5.3                      | A                       | 3.1                          | A                           |                     | 2               | 63              |     |     |  |  |
|                                    | NBIT     | 1621                    | 2.3                      | A                       | 2.3                      | A                       |                              |                             |                     | 1               | 56              |     |     |  |  |
|                                    | NBOT     | 1631                    | 5.7                      | A                       | 5.7                      | A                       |                              |                             |                     | 5               | 143             |     |     |  |  |
|                                    | NBOR     | 50                      | 5.4                      | A                       | 5.7                      | A                       |                              |                             |                     | 7               | 168             |     |     |  |  |
|                                    | EBR      | 10                      | 4.2                      | A                       | 4.2                      | A                       |                              |                             |                     | 0               | 34              |     |     |  |  |
|                                    | SBIT     | 1726                    | 1.7                      | A                       | 1.7                      | A                       |                              |                             |                     | 2               | 66              |     |     |  |  |
|                                    | SBOT     | 932                     | 1.9                      | A                       | 1.9                      | A                       |                              |                             |                     | 6               | 144             |     |     |  |  |
|                                    | SBOR     | 5                       | 2.7                      | A                       |                          |                         |                              |                             |                     | 7               | 157             |     |     |  |  |
| Roosevelt Blvd & Tyson Ave         | EBL1 (I) | 128                     | 17.8                     | B                       | 41.7                     | D                       | 32.4                         | C                           |                     |                 | 35              | 178 |     |  |  |
|                                    | EBL2 (O) | 25                      | 13.0                     | B                       |                          |                         |                              |                             |                     |                 | 35              | 178 |     |  |  |
|                                    | EBT      | 518                     | 48.7                     | D                       |                          |                         |                              |                             |                     |                 | 95              | 480 |     |  |  |
|                                    | EBR1 (I) | 20                      | 49.2                     | D                       | 104.8                    | F                       |                              |                             |                     |                 | 95              | 480 |     |  |  |
|                                    | EBR2 (O) | 1                       | 44.2                     | D                       |                          |                         |                              |                             |                     |                 | 95              | 480 |     |  |  |
|                                    | WBL1 (I) | 145                     | 14.7                     | B                       |                          |                         |                              |                             |                     |                 | 54              | 197 |     |  |  |
|                                    | WBL2 (O) | 132                     | 34.5                     | C                       | 19.5                     | B                       |                              |                             |                     |                 | 54              | 197 |     |  |  |
|                                    | WBT      | 596                     | 145.0                    | F                       |                          |                         |                              |                             |                     |                 | 341             | 698 |     |  |  |
|                                    | WBR1 (I) | 57                      | 90.7                     | F                       |                          |                         |                              |                             |                     |                 | 341             | 698 |     |  |  |
|                                    | WBR2 (O) | 42                      | 85.9                     | F                       | 17.9                     | B                       |                              |                             |                     |                 | 341             | 698 |     |  |  |
|                                    | NBIL     | 153                     | 64.5                     | E                       |                          |                         |                              |                             |                     |                 | 70              | 326 |     |  |  |
|                                    | NBIT     | 1462                    | 14.8                     | B                       |                          |                         |                              |                             |                     |                 | 70              | 326 |     |  |  |
|                                    | NBOT     | 1465                    | 17.5                     | B                       | 21.1                     | C                       |                              |                             |                     |                 | 460             | 81  | 448 |  |  |
|                                    | NBOR     | 255                     | 20.1                     | C                       |                          |                         |                              |                             |                     |                 | 460             | 81  | 448 |  |  |
|                                    | SBIL     | 246                     | 45.3                     | D                       |                          |                         |                              |                             |                     |                 | 790             | 84  | 332 |  |  |
|                                    | SBIT     | 1560                    | 17.3                     | B                       | 19.8                     | B                       |                              |                             |                     |                 | 790             | 84  | 332 |  |  |
|                                    | SBOT     | 795                     | 19.7                     | B                       |                          |                         |                              |                             |                     |                 | 45              | 285 |     |  |  |
|                                    | SBOR     | 63                      | 21.5                     | C                       |                          |                         |                              |                             |                     |                 | 45              | 285 |     |  |  |
| Roosevelt Blvd & Friendship St Ped | NBIT     | 1544                    | 1.9                      | A                       | 1.9                      | A                       | 4.0                          | A                           |                     | 1               | 40              |     |     |  |  |
|                                    | NBOT     | 1603                    | 3.0                      | A                       | 3.0                      | A                       |                              |                             |                     | 2               | 86              |     |     |  |  |
|                                    | SBIT     | 1804                    | 6.8                      | A                       | 6.8                      | A                       |                              |                             |                     | 6               | 332             |     |     |  |  |
|                                    | SBOT     | 842                     | 3.6                      | A                       | 3.6                      | A                       |                              |                             |                     | 6               | 170             |     |     |  |  |
|                                    | SBOR     | 1                       | 0.6                      | A                       |                          |                         |                              |                             |                     | 7               | 182             |     |     |  |  |
| Roosevelt Blvd & Cottman Ave       | EBL      | 282                     | 35.8                     | D                       | 32.8                     | C                       | 24.9                         | C                           |                     |                 | 57              | 227 |     |  |  |
|                                    | EBT      | 848                     | 31.8                     | C                       |                          |                         |                              |                             |                     |                 | 149             | 530 |     |  |  |
|                                    | EBR      | 36                      | 33.3                     | C                       |                          |                         |                              |                             |                     |                 | 149             | 531 |     |  |  |
|                                    | WBL      | 270                     | 31.1                     | C                       | 26.5                     | C                       |                              |                             |                     |                 | 45              | 233 |     |  |  |
|                                    | WBT      | 627                     | 24.3                     | C                       |                          |                         |                              |                             |                     |                 | 61              | 323 |     |  |  |
|                                    | WBR      | 70                      | 28.3                     | C                       |                          |                         |                              |                             |                     |                 | 61              | 323 |     |  |  |
|                                    | NBL      | 483                     | 34.9                     | C                       | 24.0                     | C                       |                              |                             |                     |                 | 95              | 456 |     |  |  |
|                                    | NBT      | 883                     | 19.0                     | B                       |                          |                         |                              |                             |                     |                 | 95              | 456 |     |  |  |
|                                    | NBR      | 168                     | 18.6                     | B                       |                          |                         |                              |                             |                     |                 | 95              | 456 |     |  |  |
|                                    | SBL      | 150                     | 12.2                     | B                       | 13.7                     | B                       |                              |                             |                     |                 | 34              | 213 |     |  |  |
|                                    | SBT      | 596                     | 13.2                     | B                       |                          |                         |                              |                             |                     |                 | 34              | 213 |     |  |  |
|                                    | SBR      | 86                      | 19.3                     | B                       |                          |                         |                              |                             |                     |                 | 34              | 213 |     |  |  |

## 2025 Build PM (Screen 6.2)

| Intersection                            | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|---|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Borbeck Ave - Ryan Ave | EBL1 (I)  | 30                      | 40.4                     | D                       | 36.7                     | D                       | 27.7                         | C                           |                     | 59              | 304             |  |  |
|   | EBL2 (O)  | 23                      | 40.1                     | D                       |                          |                         |                              |                             |                     | 59              | 304             |  |  |
|   | EBT       | 244                     | 35.8                     | D                       |                          |                         |                              |                             |                     | 59              | 304             |  |  |
|   | EBR1 (I)  | 21                      | 38.3                     | D                       |                          |                         |                              |                             |                     | 59              | 304             |  |  |
|   | EBR2 (O)  | 6                       | 34.0                     | C                       |                          |                         |                              |                             |                     | 59              | 304             |  |  |
|   | WBL1 (I)  | 18                      | 37.2                     | D                       | 35.1                     | D                       |                              |                             |                     | 57              | 336             |  |  |
|   | WBL2 (O)  | 51                      | 38.2                     | D                       |                          |                         |                              |                             |                     | 57              | 336             |  |  |
|   | WBT       | 254                     | 34.9                     | C                       |                          |                         |                              |                             |                     | 57              | 336             |  |  |
|   | WBR1 (I)  | 38                      | 31.4                     | C                       |                          |                         |                              |                             |                     | 57              | 336             |  |  |
|   | WBR2 (O)  | 8                       | 34.3                     | C                       |                          |                         |                              |                             |                     | 60              | 340             |  |  |
|   | NBIU1 (I) | 24                      | 59.5                     | E                       | 27.6                     | C                       |                              |                             |                     | 340             | 48              |  |  |
|   | NBIU2 (O) | 18                      | 56.1                     | E                       |                          |                         |                              |                             |                     | 340             | 48              |  |  |
|   | NBIL      | 126                     | 58.2                     | E                       |                          |                         |                              |                             |                     | 340             | 48              |  |  |
|   | NBIT      | 1360                    | 23.8                     | C                       | 21.7                     | C                       |                              |                             |                     | 61              | 516             |  |  |
|   | NBOT      | 1007                    | 21.9                     | C                       |                          |                         |                              |                             |                     | 55              | 423             |  |  |
|   | NBOR      | 46                      | 18.5                     | B                       |                          |                         |                              |                             |                     | 55              | 423             |  |  |
|   | SBIU1 (I) | 1                       | 7.4                      | A                       | 27.5                     | C                       |                              |                             |                     | 315             | 35              |  |  |
|   | SBIU2 (O) | 42                      | 74.2                     | E                       |                          |                         |                              |                             |                     | 315             | 35              |  |  |
|   | SBIL      | 114                     | 30.6                     | C                       |                          |                         |                              |                             |                     | 315             | 35              |  |  |
|   | SBIT      | 1469                    | 26.0                     | C                       | 29.0                     | C                       |                              |                             |                     | 78              | 350             |  |  |
|   | SBOT      | 996                     | 28.9                     | C                       |                          |                         |                              |                             |                     | 85              | 291             |  |  |
|   | SBOR      | 84                      | 30.2                     | C                       |                          |                         |                              |                             |                     | 85              | 291             |  |  |
| Roosevelt Blvd & Rhawn St               | EBL1 (I)  | 71                      | 60.0                     | E                       | 51.7                     | D                       | 27.2                         | C                           |                     | 142             | 663             |  |  |
|   | EBL2 (O)  | 61                      | 57.8                     | E                       |                          |                         |                              |                             |                     | 142             | 663             |  |  |
|   | EBT       | 405                     | 50.2                     | D                       |                          |                         |                              |                             |                     | 142             | 663             |  |  |
|   | EBR1 (I)  | 60                      | 47.4                     | D                       |                          |                         |                              |                             |                     | 142             | 663             |  |  |
|   | EBR2 (O)  | 23                      | 46.7                     | D                       |                          |                         |                              |                             |                     | 142             | 663             |  |  |
|   | WBL1 (I)  | 53                      | 53.8                     | D                       | 43.2                     | D                       |                              |                             |                     | 77              | 303             |  |  |
|   | WBL2 (O)  | 52                      | 54.8                     | D                       |                          |                         |                              |                             |                     | 77              | 303             |  |  |
|   | WBT       | 346                     | 40.3                     | D                       |                          |                         |                              |                             |                     | 77              | 303             |  |  |
|   | WBR1 (I)  | 111                     | 41.5                     | D                       |                          |                         |                              |                             |                     | 77              | 303             |  |  |
|   | WBR2 (O)  | 20                      | 43.4                     | D                       |                          |                         |                              |                             |                     | 77              | 303             |  |  |
|   | NBIU1 (I) | 48                      | 38.2                     | D                       | 6.5                      | A                       |                              |                             |                     | 25              | 196             |  |  |
|   | NBIU2 (O) | 0                       | 31.6                     | C                       |                          |                         |                              |                             |                     | 25              | 196             |  |  |
|   | NBIL      | 69                      | 41.0                     | D                       |                          |                         |                              |                             |                     | 25              | 196             |  |  |
|   | NBIT      | 1295                    | 3.5                      | A                       |                          |                         |                              |                             |                     | 10              | 74              |  |  |
|   | NBOT      | 1054                    | 5.9                      | A                       | 6.0                      | A                       |                              |                             |                     | 20              | 191             |  |  |
|   | NBOR      | 39                      | 8.7                      | A                       |                          |                         |                              |                             |                     | 20              | 194             |  |  |
|   | SBIU1 (I) | 1                       | 81.3                     | F                       |                          |                         |                              |                             |                     | 350             | 124             |  |  |
|   | SBIU2 (O) | 47                      | 125.2                    | F                       | 49.9                     | D                       |                              |                             |                     | 350             | 124             |  |  |
|   | SBIL      | 143                     | 122.3                    | F                       |                          |                         |                              |                             |                     | 350             | 124             |  |  |
|   | SBIT      | 1475                    | 40.5                     | D                       |                          |                         |                              |                             |                     | 119             | 619             |  |  |
|   | SBOT      | 994                     | 17.9                     | B                       | 17.5                     | B                       |                              |                             |                     | 53              | 253             |  |  |
|   | SBOR      | 52                      | 10.5                     | B                       |                          |                         |                              |                             |                     | 55              | 257             |  |  |
| Roosevelt Blvd & Holme Ave - Solly Ave  | EBL       | 92                      | 38.8                     | D                       | 50.1                     | D                       | 25.5                         | C                           |                     | 34              | 228             |  |  |
|   | EBT       | 397                     | 52.6                     | D                       |                          |                         |                              |                             |                     | 73              | 245             |  |  |
|   | EBR       | 17                      | 51.6                     | D                       |                          |                         |                              |                             |                     | 73              | 245             |  |  |
|   | WBL       | 260                     | 43.8                     | D                       | 30.8                     | C                       |                              |                             |                     | 51              | 282             |  |  |
|   | WBT       | 340                     | 24.1                     | C                       |                          |                         |                              |                             |                     | 39              | 253             |  |  |
|   | WBR       | 113                     | 21.1                     | C                       |                          |                         |                              |                             |                     | 4               | 154             |  |  |
|   | NBL       | 23                      | 23.7                     | C                       | 8.1                      | A                       |                              |                             |                     | 24              | 221             |  |  |
|   | NBT       | 695                     | 5.4                      | A                       |                          |                         |                              |                             |                     | 24              | 221             |  |  |
|   | NBR       | 306                     | 13.1                     | B                       |                          |                         |                              |                             |                     | 24              | 221             |  |  |
|   | SBL       | 219                     | 29.8                     | C                       | 27.3                     | C                       |                              |                             |                     | 68              | 360             |  |  |
|   | SBT       | 667                     | 26.8                     | C                       |                          |                         |                              |                             |                     | 68              | 360             |  |  |
|   | SBR       | 39                      | 21.0                     | C                       |                          |                         |                              |                             |                     | 68              | 360             |  |  |
| Roosevelt Blvd & Strahle St             | EBL (I)   | 196                     | 48.6                     | D                       | 48.1                     | D                       | 9.5                          | A                           |                     | 49              | 240             |  |  |
|   | EBR1 (I)  | 56                      | 47.4                     | D                       |                          |                         |                              |                             |                     | 49              | 240             |  |  |
|   | EBR2 (O)  | 13                      | 44.0                     | D                       |                          |                         |                              |                             |                     | 49              | 240             |  |  |
|   | WBR (O)   | 31                      | 1.2                      | A                       | 1.2                      | A                       |                              |                             |                     | 0               | 35              |  |  |
|   | NBIU (O)  | 92                      | 41.5                     | D                       |                          |                         |                              |                             |                     | 32              | 194             |  |  |
|   | NBIL      | 55                      | 37.3                     | D                       |                          |                         |                              |                             |                     | 32              | 194             |  |  |
|   | NBIT      | 1331                    | 5.8                      | A                       | 5.5                      | A                       |                              |                             |                     | 32              | 194             |  |  |
|   | NBOT      | 947                     | 5.5                      | A                       |                          |                         |                              |                             |                     | 3               | 208             |  |  |
|   | NBOR      | 8                       | 6.2                      | A                       |                          |                         |                              |                             |                     | 25              | 183             |  |  |
|   | SBIT      | 1617                    | 5.7                      | A                       | 5.7                      | A                       |                              |                             |                     | 16              | 159             |  |  |
|   | SBOT      | 817                     | 9.5                      | A                       |                          |                         |                              |                             |                     | 18              | 166             |  |  |
|   | SBOR      | 84                      | 13.6                     | B                       |                          |                         |                              |                             |                     | 17              | 166             |  |  |

## 2025 Build PM (Screen 6.2)

| Intersection                 | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|------------------------------|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Woodward St | EBL1 (I)  | 25                      | 42.7                     | D                       | 37.6                     | D                       | 26.7                         | C                           |                     | 24              | 193             |  |  |
|                              | EBL2 (O)  | 100                     | 38.6                     | D                       |                          |                         |                              |                             |                     | 24              | 193             |  |  |
|                              | EBT       | 81                      | 36.2                     | D                       |                          |                         |                              |                             |                     | 27              | 190             |  |  |
|                              | EBR1 (I)  | 66                      | 35.9                     | D                       |                          |                         |                              |                             |                     | 27              | 190             |  |  |
|                              | EBR2 (O)  | 7                       | 38.1                     | D                       |                          |                         |                              |                             |                     | 27              | 190             |  |  |
|                              | WBL1 (I)  | 38                      | 35.1                     | D                       | 35.0                     | D                       |                              |                             | 230                 | 19              | 205             |  |  |
|                              | WBL2 (O)  | 74                      | 37.0                     | D                       |                          |                         |                              |                             | 230                 | 19              | 205             |  |  |
|                              | WBT       | 103                     | 33.8                     | C                       |                          |                         |                              |                             | 230                 | 21              | 189             |  |  |
|                              | WBR1 (I)  | 9                       | 33.9                     | C                       |                          |                         |                              |                             | 230                 | 21              | 189             |  |  |
|                              | WBR2 (O)  | 9                       | 33.7                     | C                       |                          |                         |                              |                             | 230                 | 21              | 189             |  |  |
|                              | NBIU1 (I) | 5                       | 64.5                     | E                       | 21.8                     | C                       |                              |                             |                     | 38              | 208             |  |  |
|                              | NBIU2 (O) | 0                       | 63.8                     | E                       |                          |                         |                              |                             |                     | 38              | 208             |  |  |
|                              | NBIL      | 135                     | 51.2                     | D                       |                          |                         |                              |                             |                     | 38              | 208             |  |  |
|                              | NBIT      | 1392                    | 18.8                     | B                       |                          |                         |                              |                             |                     | 53              | 357             |  |  |
|                              | NBOT      | 834                     | 20.1                     | C                       | 20.0                     | B                       |                              |                             |                     | 44              | 263             |  |  |
|                              | NBOR      | 28                      | 15.7                     | B                       |                          |                         |                              |                             |                     | 44              | 263             |  |  |
|                              | SBIU1 (I) | 0                       | 10.7                     | B                       |                          |                         |                              |                             | 220                 | 14              | 87              |  |  |
|                              | SBIU2 (O) | 0                       | 82.6                     | F                       |                          |                         |                              |                             | 220                 | 14              | 87              |  |  |
|                              | SBIL      | 22                      | 48.8                     | D                       | 30.1                     | C                       |                              |                             | 220                 | 14              | 87              |  |  |
|                              | SBIT      | 1373                    | 29.8                     | C                       |                          |                         |                              |                             |                     | 77              | 388             |  |  |
|                              | SBOT      | 934                     | 30.0                     | C                       |                          |                         |                              |                             |                     | 74              | 348             |  |  |
|                              | SBOR      | 70                      | 34.0                     | C                       |                          |                         |                              |                             |                     | 74              | 348             |  |  |
| Roosevelt Blvd & Welsh Rd    | EBL1 (I)  | 14                      | 42.8                     | D                       | 45.4                     | D                       | 39.6                         | D                           |                     | 8               | 75              |  |  |
|                              | EBL2 (O)  | 49                      | 46.6                     | D                       |                          |                         |                              |                             |                     | 8               | 75              |  |  |
|                              | EBT       | 390                     | 45.3                     | D                       |                          |                         |                              |                             |                     | 136             | 503             |  |  |
|                              | EBR1 (I)  | 118                     | 45.7                     | D                       |                          |                         |                              |                             |                     | 136             | 503             |  |  |
|                              | EBR2 (O)  | 23                      | 43.9                     | D                       |                          |                         |                              |                             |                     | 136             | 503             |  |  |
|                              | WBL1 (I)  | 41                      | 45.4                     | D                       | 44.9                     | D                       |                              |                             |                     | 28              | 183             |  |  |
|                              | WBL2 (O)  | 118                     | 57.0                     | E                       |                          |                         |                              |                             |                     | 28              | 183             |  |  |
|                              | WBT       | 348                     | 41.2                     | D                       |                          |                         |                              |                             |                     | 90              | 463             |  |  |
|                              | WBR1 (I)  | 40                      | 42.8                     | D                       |                          |                         |                              |                             |                     | 90              | 463             |  |  |
|                              | WBR2 (O)  | 28                      | 41.1                     | D                       |                          |                         |                              |                             |                     | 90              | 463             |  |  |
|                              | NBIU1 (I) | 17                      | 98.9                     | F                       | 35.4                     | D                       |                              |                             |                     | 0               | 2               |  |  |
|                              | NBIU2 (O) | 10                      | 105.3                    | F                       |                          |                         |                              |                             |                     | 0               | 13              |  |  |
|                              | NBIL      | 224                     | 98.2                     | F                       |                          |                         |                              |                             |                     | 158             | 523             |  |  |
|                              | NBIT      | 1174                    | 22.0                     | C                       |                          |                         |                              |                             |                     | 47              | 183             |  |  |
|                              | NBOT      | 898                     | 20.1                     | C                       | 19.9                     | B                       |                              |                             |                     | 49              | 212             |  |  |
|                              | NBOR      | 77                      | 16.8                     | B                       |                          |                         |                              |                             |                     | 49              | 212             |  |  |
|                              | SBIU (O)  | 10                      | 99.1                     | F                       |                          |                         |                              |                             |                     | 61              | 359             |  |  |
|                              | SBIL      | 119                     | 85.1                     | F                       |                          |                         |                              |                             |                     | 61              | 359             |  |  |
|                              | SBIT      | 1245                    | 48.3                     | D                       | 51.9                     | D                       |                              |                             |                     | 125             | 509             |  |  |
|                              | SBOT      | 921                     | 41.1                     | D                       |                          |                         |                              |                             |                     | 122             | 455             |  |  |
|                              | SBOR      | 44                      | 54.1                     | D                       |                          |                         |                              |                             |                     | 122             | 455             |  |  |
| Roosevelt Blvd & Goodnow St  | EBL1 (I)  | 29                      | 31.9                     | C                       | 32.9                     | C                       | 19.5                         | B                           |                     | 18              | 129             |  |  |
|                              | EBL2 (O)  | 60                      | 34.2                     | C                       |                          |                         |                              |                             |                     | 18              | 129             |  |  |
|                              | EBT       | 38                      | 30.8                     | C                       |                          |                         |                              |                             |                     | 18              | 129             |  |  |
|                              | EBR1 (I)  | 22                      | 35.2                     | D                       |                          |                         |                              |                             |                     | 18              | 129             |  |  |
|                              | EBR2 (O)  | 8                       | 28.8                     | C                       |                          |                         |                              |                             |                     | 18              | 129             |  |  |
|                              | WBL1 (I)  | 21                      | 34.2                     | C                       | 31.5                     | C                       |                              |                             |                     | 23              | 155             |  |  |
|                              | WBL2 (O)  | 64                      | 31.3                     | C                       |                          |                         |                              |                             |                     | 23              | 155             |  |  |
|                              | WBT       | 44                      | 31.1                     | C                       |                          |                         |                              |                             |                     | 23              | 155             |  |  |
|                              | WBR1 (I)  | 40                      | 31.1                     | C                       |                          |                         |                              |                             |                     | 23              | 155             |  |  |
|                              | WBR2 (O)  | 56                      | 31.2                     | C                       |                          |                         |                              |                             |                     | 21              | 157             |  |  |
|                              | NBIU1 (I) | 11                      | 41.8                     | D                       | 6.4                      | A                       |                              |                             |                     | 14              | 122             |  |  |
|                              | NBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 14              | 122             |  |  |
|                              | NBIL      | 52                      | 45.8                     | D                       |                          |                         |                              |                             |                     | 14              | 122             |  |  |
|                              | NBIT      | 1163                    | 4.3                      | A                       |                          |                         |                              |                             |                     | 9               | 65              |  |  |
|                              | NBOT      | 919                     | 4.9                      | A                       | 5.0                      | A                       |                              |                             |                     | 14              | 105             |  |  |
|                              | NBOR      | 66                      | 6.2                      | A                       |                          |                         |                              |                             |                     | 14              | 105             |  |  |
|                              | SBIU1 (I) | 0                       | 6.7                      | A                       |                          |                         |                              |                             |                     | 26              | 156             |  |  |
|                              | SBIU2 (O) | 6                       | 57.9                     | E                       |                          |                         |                              |                             |                     | 26              | 156             |  |  |
|                              | SBIL      | 96                      | 52.1                     | D                       | 31.1                     | C                       |                              |                             | 220                 | 26              | 156             |  |  |
|                              | SBIT      | 1448                    | 29.6                     | C                       |                          |                         |                              |                             |                     | 81              | 619             |  |  |
|                              | SBOT      | 841                     | 28.0                     | C                       |                          |                         |                              |                             |                     | 62              | 477             |  |  |
|                              | SBOR      | 60                      | 28.9                     | C                       |                          |                         |                              |                             |                     | 61              | 477             |  |  |

## 2025 Build PM (Screen 6.2)

| Intersection                               | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|--|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Grant Ave                 | EBL1 (I)  | 25                      | 53.2                     | D                       | 39.4                     | D                       | 36.0                         | D                           |                     | 16              | 267             |  |  |
|  | EBL2 (O)  | 87                      | 54.6                     | D                       |                          |                         |                              |                             |                     | 16              | 267             |  |  |
|  | EBT       | 914                     | 37.4                     | D                       |                          |                         |                              |                             |                     | 108             | 495             |  |  |
|  | EBR1 (I)  | 69                      | 42.8                     | D                       |                          |                         |                              |                             |                     | 108             | 495             |  |  |
|  | EBR2 (O)  | 26                      | 37.8                     | D                       |                          |                         |                              |                             |                     | 108             | 495             |  |  |
|  | WBL1 (I)  | 62                      | 72.6                     | E                       | 42.0                     | D                       |                              |                             |                     | 45              | 266             |  |  |
|  | WBL2 (O)  | 130                     | 71.5                     | E                       |                          |                         |                              |                             |                     | 45              | 266             |  |  |
|  | WBT       | 1055                    | 37.8                     | D                       |                          |                         |                              |                             |                     | 111             | 541             |  |  |
|  | WBR1 (I)  | 131                     | 35.2                     | D                       |                          |                         |                              |                             |                     | 111             | 541             |  |  |
|  | WBR2 (O)  | 43                      | 34.0                     | C                       | 34.9                     | C                       |                              |                             |                     | 111             | 541             |  |  |
|  | NBIU1 (I) | 6                       | 56.1                     | E                       |                          |                         |                              |                             |                     | 49              | 239             |  |  |
|  | NBIU2 (O) | 10                      | 59.7                     | E                       |                          |                         |                              |                             |                     | 49              | 239             |  |  |
|  | NBIL      | 134                     | 61.8                     | E                       |                          |                         |                              |                             |                     | 49              | 239             |  |  |
|  | NBIT      | 1065                    | 31.1                     | C                       | 35.2                     | D                       |                              |                             |                     | 67              | 388             |  |  |
|  | NBOT      | 806                     | 34.5                     | C                       |                          |                         |                              |                             |                     | 85              | 485             |  |  |
|  | NBOR      | 187                     | 37.9                     | D                       |                          |                         |                              |                             |                     | 85              | 486             |  |  |
|  | SBIU1 (I) | 2                       | 38.8                     | D                       |                          |                         |                              |                             |                     | 108             | 425             |  |  |
|  | SBIU2 (O) | 31                      | 62.5                     | E                       | 31.8                     | C                       |                              |                             |                     | 108             | 425             |  |  |
|  | SBIL      | 363                     | 45.7                     | D                       |                          |                         |                              |                             |                     | 108             | 425             |  |  |
|  | SBIT      | 1352                    | 27.4                     | C                       |                          |                         |                              |                             |                     | 108             | 425             |  |  |
|  | SBOT      | 626                     | 29.1                     | C                       |                          |                         |                              |                             |                     | 83              | 378             |  |  |
|  | SBOR      | 58                      | 64.1                     | E                       |                          |                         |                              |                             |                     | 82              | 379             |  |  |
| Roosevelt Blvd & Whitman Plaza - Fulmer St | EBR       | 13                      | 1.4                      | A                       | 1.4                      | A                       | 19.8                         | B                           |                     | 0               | 30              |  |  |
|  | WBL       | 177                     | 29.3                     | C                       | 30.3                     | C                       |                              |                             |                     | 26              | 153             |  |  |
|  | WBR1 (I)  | 95                      | 32.8                     | C                       |                          |                         |                              |                             |                     | 26              | 153             |  |  |
|  | WBR2 (O)  | 12                      | 25.7                     | C                       |                          |                         |                              |                             |                     | 26              | 153             |  |  |
|  | NBIU      | 25                      | 18.4                     | B                       | 15.9                     | B                       |                              |                             |                     | 41              | 288             |  |  |
|  | NBIT      | 1198                    | 15.9                     | B                       |                          |                         |                              |                             |                     | 41              | 288             |  |  |
|  | NBOT      | 769                     | 19.9                     | B                       |                          |                         |                              |                             |                     | 41              | 365             |  |  |
|  | NBOR      | 198                     | 19.5                     | B                       |                          |                         |                              |                             |                     | 40              | 365             |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       | 22.4                     | C                       |                              |                             |                     | 54              | 181             |  |  |
|  | SBIU2 (O) | 43                      | 75.6                     | E                       |                          |                         |                              |                             |                     | 54              | 181             |  |  |
|  | SBIL      | 205                     | 68.9                     | E                       |                          |                         |                              |                             |                     | 54              | 181             |  |  |
|  | SBIT      | 1490                    | 14.5                     | B                       |                          |                         |                              |                             |                     | 39              | 488             |  |  |
|  | SBOT      | 760                     | 16.1                     | B                       | 16.1                     | B                       |                              |                             |                     | 27              | 371             |  |  |
|  | SBOR      | 2                       | 16.7                     | B                       |                          |                         |                              |                             |                     | 27              | 371             |  |  |
| Roosevelt Blvd & Lott Street               | EBL (I)   | 65                      | 38.0                     | D                       | 38.3                     | D                       | 29.1                         | C                           |                     | 25              | 169             |  |  |
|  | EBR1 (I)  | 107                     | 38.6                     | D                       |                          |                         |                              |                             |                     | 25              | 169             |  |  |
|  | EBR2 (O)  | 7                       | 36.0                     | D                       |                          |                         |                              |                             |                     | 25              | 169             |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       | 21.0                     | C                       |                              |                             |                     | 28              | 214             |  |  |
|  | NBIU2 (O) | 6                       | 66.9                     | E                       |                          |                         |                              |                             |                     | 28              | 214             |  |  |
|  | NBIL      | 94                      | 54.5                     | D                       |                          |                         |                              |                             |                     | 28              | 214             |  |  |
|  | NBIT      | 1234                    | 18.2                     | B                       |                          |                         |                              |                             |                     | 44              | 503             |  |  |
|  | NBOT      | 848                     | 17.8                     | B                       | 17.8                     | B                       |                              |                             |                     | 42              | 437             |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 139             | 584             |  |  |
|  | SBIT      | 1642                    | 37.7                     | D                       |                          |                         |                              |                             |                     | 139             | 584             |  |  |
|  | SBOT      | 752                     | 34.9                     | C                       |                          |                         |                              |                             |                     | 75              | 388             |  |  |
|  | SBOR      | 34                      | 31.6                     | C                       |                          |                         |                              |                             |                     | 75              | 388             |  |  |
| Roosevelt Blvd & Bowler St Ped             | EBR       | 38                      | 5.0                      | A                       | 5.0                      | A                       | 5.3                          | A                           |                     | 1               | 52              |  |  |
|  | NBIT      | 1289                    | 3.5                      | A                       | 3.5                      | A                       |                              |                             |                     | 7               | 357             |  |  |
|  | NBOT      | 923                     | 1.6                      | A                       | 1.6                      | A                       |                              |                             |                     | 5               | 245             |  |  |
|  | SBIT      | 1636                    | 8.2                      | A                       | 8.2                      | A                       |                              |                             |                     | 12              | 457             |  |  |
|  | SBOT      | 741                     | 6.5                      | A                       | 6.5                      | A                       |                              |                             |                     | 6               | 229             |  |  |
|  | SBOR      | 1                       | 4.3                      | A                       |                          | 6                       |                              |                             | 229                 |                 |                 |  |  |
| Roosevelt Blvd & Conwell Ave               | EBL (I)   | 33                      | 32.7                     | C                       | 34.1                     | C                       | 19.1                         | B                           |                     | 16              | 137             |  |  |
|  | EBR1 (I)  | 55                      | 35.1                     | D                       |                          |                         |                              |                             |                     | 16              | 137             |  |  |
|  | EBR2 (O)  | 7                       | 32.8                     | C                       |                          |                         |                              |                             |                     | 16              | 137             |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       | 18.5                     | B                       |                              |                             |                     | 41              | 226             |  |  |
|  | NBIU2 (O) | 0                       | 21.9                     | C                       |                          |                         |                              |                             |                     | 41              | 226             |  |  |
|  | NBIL      | 123                     | 69.3                     | E                       |                          |                         |                              |                             |                     | 41              | 226             |  |  |
|  | NBIT      | 1144                    | 13.1                     | B                       |                          |                         |                              |                             |                     | 25              | 422             |  |  |
|  | NBOT      | 1003                    | 13.4                     | B                       | 13.4                     | B                       |                              |                             |                     | 27              | 396             |  |  |
|  | SBIU1 (I) | 0                       | 2.4                      | A                       |                          |                         |                              |                             |                     | 68              | 569             |  |  |
|  | SBIT      | 1573                    | 24.2                     | C                       |                          |                         |                              |                             |                     | 68              | 569             |  |  |
|  | SBOT      | 731                     | 14.9                     | B                       |                          |                         |                              |                             |                     | 33              | 331             |  |  |
|  | SBOR      | 37                      | 14.4                     | B                       | 14.9                     | B                       |                              |                             |                     | 29              | 331             |  |  |

## 2025 Build PM (Screen 6.2)

| Intersection                       | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|------------------------------------|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Red Lion Rd       | EBL1 (I)  | 23                      | 61.5                     | E                       | 68.3                     | E                       | 31.3                         | C                           | 270                 | 15              | 120             |  |  |
|                                    | EBL2 (O)  | 56                      | 57.9                     | E                       |                          |                         |                              |                             | 270                 | 15              | 120             |  |  |
|                                    | EBT       | 628                     | 54.6                     | D                       |                          |                         |                              |                             | 245                 | 676             |                 |  |  |
|                                    | EBR1 (I)  | 287                     | 97.4                     | F                       |                          |                         |                              |                             | 245                 | 676             |                 |  |  |
|                                    | EBR2 (O)  | 40                      | 92.6                     | F                       |                          |                         |                              |                             | 245                 | 676             |                 |  |  |
|                                    | WBL1 (I)  | 47                      | 60.2                     | E                       | 46.1                     | D                       |                              |                             | 25                  | 150             |                 |  |  |
|                                    | WBL2 (O)  | 90                      | 62.7                     | E                       |                          |                         |                              |                             | 25                  | 150             |                 |  |  |
|                                    | WBT       | 443                     | 41.7                     | D                       |                          |                         |                              |                             | 109                 | 513             |                 |  |  |
|                                    | WBR1 (I)  | 15                      | 41.3                     | D                       |                          |                         |                              |                             | 109                 | 513             |                 |  |  |
|                                    | WBR2 (O)  | 24                      | 41.6                     | D                       |                          |                         |                              |                             | 109                 | 513             |                 |  |  |
|                                    | NBIU1 (I) | 2                       | 47.5                     | D                       | 21.8                     | C                       |                              |                             | 51                  | 356             |                 |  |  |
|                                    | NBIU2 (O) | 23                      | 47.5                     | D                       |                          |                         |                              |                             | 51                  | 356             |                 |  |  |
|                                    | NBIL      | 248                     | 42.6                     | D                       |                          |                         |                              |                             | 51                  | 356             |                 |  |  |
|                                    | NBIT      | 930                     | 15.6                     | B                       | 15.7                     | B                       |                              |                             | 51                  | 356             |                 |  |  |
|                                    | NBOT      | 857                     | 14.6                     | B                       |                          |                         |                              |                             | 37                  | 392             |                 |  |  |
|                                    | NBOR      | 195                     | 20.3                     | C                       |                          |                         |                              |                             | 37                  | 392             |                 |  |  |
|                                    | SBIU1 (I) | 1                       | 44.2                     | D                       | 23.9                     | C                       |                              |                             | 68                  | 498             |                 |  |  |
|                                    | SBIU2 (O) | 3                       | 69.7                     | E                       |                          |                         |                              |                             | 68                  | 498             |                 |  |  |
|                                    | SBIL      | 37                      | 63.8                     | E                       |                          |                         |                              |                             | 68                  | 498             |                 |  |  |
|                                    | SBIT      | 1238                    | 22.5                     | C                       |                          |                         |                              |                             | 68                  | 498             |                 |  |  |
|                                    | SBOT      | 628                     | 19.3                     | B                       | 18.9                     | B                       |                              |                             | 43                  | 346             |                 |  |  |
|                                    | SBOR      | 174                     | 17.3                     | B                       |                          |                         |                              |                             | 43                  | 346             |                 |  |  |
| Roosevelt Blvd & Tomlinson Ave Ped | EBR       | 68                      | 5.6                      | A                       | 5.6                      | A                       | 2.3                          | A                           | 2                   | 54              |                 |  |  |
|                                    | NBIT      | 979                     | 0.9                      | A                       | 0.9                      | A                       |                              |                             | 0                   | 22              |                 |  |  |
|                                    | NBOT      | 930                     | 2.1                      | A                       | 2.1                      | A                       |                              |                             | 0                   | 40              |                 |  |  |
|                                    | SBIT      | 1262                    | 3.2                      | A                       | 3.2                      | A                       |                              |                             | 1                   | 79              |                 |  |  |
|                                    | SBOT      | 794                     | 2.6                      | A                       | 2.6                      | A                       |                              |                             | 2                   | 124             |                 |  |  |
|                                    | SBOR      | 54                      | 2.7                      | A                       |                          |                         |                              |                             | 3                   | 162             |                 |  |  |
| Roosevelt Blvd & Haldeman Ave      | EBL1 (I)  | 263                     | 51.6                     | D                       | 52.0                     | D                       | 15.4                         | B                           | 89                  | 329             |                 |  |  |
|                                    | EBL2 (O)  | 312                     | 52.4                     | D                       |                          |                         |                              |                             | 89                  | 329             |                 |  |  |
|                                    | EBT       | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 89                  | 329             |                 |  |  |
|                                    | EBR2 (O)  | 3                       | 31.4                     | C                       |                          |                         |                              |                             | 89                  | 329             |                 |  |  |
|                                    | WBL1 (I)  | 16                      | 53.8                     | D                       | 41.5                     | D                       |                              |                             | 11                  | 103             |                 |  |  |
|                                    | WBL2 (O)  | 24                      | 55.3                     | E                       |                          |                         |                              |                             | 11                  | 103             |                 |  |  |
|                                    | WBR1 (I)  | 9                       | 44.1                     | D                       |                          |                         |                              |                             | 11                  | 103             |                 |  |  |
|                                    | WBR2 (O)  | 20                      | 14.3                     | B                       |                          |                         |                              |                             | 15                  | 115             |                 |  |  |
|                                    | NBIT      | 964                     | 10.1                     | B                       | 10.1                     | B                       |                              |                             | 16                  | 268             |                 |  |  |
|                                    | NBOT      | 910                     | 10.3                     | B                       |                          |                         |                              |                             | 25                  | 341             |                 |  |  |
|                                    | NBOR      | 1                       | 3.1                      | A                       |                          |                         |                              |                             | 23                  | 343             |                 |  |  |
|                                    | SBIT      | 1245                    | 10.8                     | B                       | 10.8                     | B                       |                              |                             | 26                  | 414             |                 |  |  |
|                                    | SBOT      | 815                     | 13.4                     | B                       |                          |                         |                              |                             | 56                  | 706             |                 |  |  |
|                                    | SBOR      | 559                     | 5.3                      | A                       | 10.1                     | B                       |                              |                             | 5                   | 245             |                 |  |  |
| Roosevelt Blvd & Plaza Dr          | EBL1 (I)  | 72                      | 35.1                     | D                       | 36.5                     | D                       | 31.0                         | C                           | 84                  | 246             |                 |  |  |
|                                    | EBL2 (O)  | 99                      | 37.2                     | D                       |                          |                         |                              |                             | 84                  | 246             |                 |  |  |
|                                    | EBT       | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 84                  | 246             |                 |  |  |
|                                    | EBR1 (I)  | 45                      | 37.8                     | D                       |                          |                         |                              |                             | 84                  | 246             |                 |  |  |
|                                    | EBR2 (O)  | 12                      | 34.3                     | C                       |                          |                         |                              |                             | 81                  | 246             |                 |  |  |
|                                    | WBL1 (I)  | 4                       | 39.3                     | D                       | 36.9                     | D                       |                              |                             | 3                   | 53              |                 |  |  |
|                                    | WBL2 (O)  | 8                       | 36.7                     | D                       |                          |                         |                              |                             | 3                   | 53              |                 |  |  |
|                                    | WBT       | 2                       | 41.8                     | D                       |                          |                         |                              |                             | 3                   | 53              |                 |  |  |
|                                    | WBR1 (I)  | 3                       | 34.1                     | C                       |                          |                         |                              |                             | 3                   | 53              |                 |  |  |
|                                    | WBR2 (O)  | 1                       | 15.6                     | B                       |                          |                         |                              |                             | 3                   | 53              |                 |  |  |
|                                    | NBIU1 (I) | 5                       | 63.3                     | E                       | 15.8                     | B                       |                              |                             | 230                 | 45              | 239             |  |  |
|                                    | NBIU2 (O) | 4                       | 53.3                     | D                       |                          |                         |                              |                             | 230                 | 45              | 239             |  |  |
|                                    | NBIL      | 78                      | 54.9                     | D                       |                          |                         |                              |                             | 230                 | 45              | 239             |  |  |
|                                    | NBIT      | 1144                    | 12.9                     | B                       |                          |                         |                              |                             | 45                  | 239             |                 |  |  |
|                                    | NBOT      | 1236                    | 14.4                     | B                       | 14.4                     | B                       |                              |                             | 45                  | 408             |                 |  |  |
|                                    | NBOR      | 2                       | 13.5                     | B                       |                          |                         |                              |                             | 45                  | 408             |                 |  |  |
|                                    | SBIT      | 1206                    | 32.4                     | C                       | 32.4                     | C                       |                              |                             | 89                  | 353             |                 |  |  |
|                                    | SBOT      | 1362                    | 53.5                     | D                       |                          |                         |                              |                             | 224                 | 853             |                 |  |  |
|                                    | SBOR      | 212                     | 55.5                     | E                       | 53.8                     | D                       |                              |                             | 222                 | 851             |                 |  |  |

## 2025 Build PM (Screen 6.2)

| Intersection                           | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|--|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Comly Rd              | EBL1 (I)  | 4                       | 40.7                     | D                       | 33.6                     | C                       | 27.5                         | C                           |                     | 8               | 89              |  |  |
|  | EBL2 (O)  | 0                       | 23.5                     | C                       |                          |                         |                              |                             |                     | 8               | 89              |  |  |
|  | EBT       | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 8               | 89              |  |  |
|  | EBR1 (I)  | 7                       | 27.1                     | C                       |                          |                         |                              |                             |                     | 8               | 89              |  |  |
|  | EBR2 (O)  | 37                      | 34.2                     | C                       |                          |                         |                              |                             |                     | 8               | 89              |  |  |
|  | WBL1 (I)  | 32                      | 33.9                     | C                       | 53.5                     | D                       |                              |                             |                     | 111             | 595             |  |  |
|  | WBL2 (O)  | 345                     | 54.6                     | D                       |                          |                         |                              |                             |                     | 111             | 595             |  |  |
|  | WBT       | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 111             | 595             |  |  |
|  | WBR1 (I)  | 229                     | 54.8                     | D                       |                          |                         |                              |                             |                     | 111             | 595             |  |  |
|  | WBR2 (O)  | 10                      | 46.5                     | D                       |                          |                         |                              |                             |                     | 111             | 595             |  |  |
|  | NBIL      | 0                       | 0.0                      | A                       | 24.0                     | C                       |                              |                             |                     | 56              | 360             |  |  |
|  | NBIT      | 1219                    | 24.0                     | C                       |                          |                         |                              |                             |                     | 56              | 360             |  |  |
|  | NBOT      | 1221                    | 24.3                     | C                       |                          |                         |                              |                             |                     | 101             | 499             |  |  |
|  | NBOR      | 117                     | 21.3                     | C                       | 24.1                     | C                       |                              |                             |                     | 101             | 499             |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 225             | 664             |  |  |
|  | SBIU2 (O) | 18                      | 104.8                    | F                       |                          |                         |                              |                             |                     | 225             | 664             |  |  |
|  | SBIL      | 284                     | 119.4                    | F                       | 34.9                     | C                       |                              |                             |                     | 225             | 664             |  |  |
|  | SBIT      | 1140                    | 12.7                     | B                       |                          |                         |                              |                             |                     | 855             | 663             |  |  |
|  | SBOT      | 1126                    | 12.0                     | B                       |                          |                         |                              |                             |                     | 35              | 500             |  |  |
|  | SBOR      | 32                      | 10.1                     | B                       | 11.9                     | B                       |                              |                             |                     | 35              | 500             |  |  |
| Roosevelt Blvd & Byberry Rd            | EBL (I)   | 75                      | 34.0                     | C                       | 39.0                     | D                       | 23.3                         | C                           |                     | 57              | 342             |  |  |
|  | EBR1 (I)  | 136                     | 41.1                     | D                       |                          |                         |                              |                             |                     | 57              | 342             |  |  |
|  | EBR2 (O)  | 150                     | 39.6                     | D                       |                          |                         |                              |                             |                     | 57              | 342             |  |  |
|  | NBIU1 (I) | 6                       | 45.0                     | D                       | 18.2                     | B                       |                              |                             |                     | 70              | 367             |  |  |
|  | NBIU2 (O) | 21                      | 57.6                     | E                       |                          |                         |                              |                             |                     | 70              | 367             |  |  |
|  | NBIL      | 121                     | 66.6                     | E                       |                          |                         |                              |                             |                     | 70              | 367             |  |  |
|  | NBIT      | 1295                    | 12.9                     | B                       |                          |                         |                              |                             |                     | 70              | 367             |  |  |
|  | NBOT      | 636                     | 1.8                      | A                       | 2.7                      | A                       |                              |                             |                     | 0               | 21              |  |  |
|  | NBOR      | 608                     | 3.6                      | A                       |                          |                         |                              |                             |                     | 1               | 38              |  |  |
|  | SBIT      | 1322                    | 33.6                     | C                       |                          |                         |                              |                             |                     | 81              | 503             |  |  |
| Roosevelt Blvd & Hornig Rd - Crown Way | SBOT      | 998                     | 39.0                     | D                       | 35.3                     | D                       | 32.2                         | C                           |                     | 91              | 434             |  |  |
|  | SBOR      | 149                     | 10.6                     | B                       |                          |                         |                              |                             |                     | 6               | 232             |  |  |
|  | EBL1 (I)  | 97                      | 34.4                     | C                       | 33.2                     | C                       |                              |                             |                     | 26              | 157             |  |  |
|  | EBL2 (O)  | 9                       | 32.9                     | C                       |                          |                         |                              |                             |                     | 26              | 157             |  |  |
|  | EBT       | 2                       | 36.3                     | D                       |                          |                         |                              |                             |                     | 26              | 157             |  |  |
|  | EBR1 (I)  | 46                      | 33.9                     | C                       | 31.1                     | C                       |                              |                             |                     | 26              | 157             |  |  |
|  | EBR2 (O)  | 77                      | 31.3                     | C                       |                          |                         |                              |                             |                     | 26              | 157             |  |  |
|  | WBL1 (I)  | 10                      | 31.0                     | C                       |                          |                         |                              |                             |                     | 15              | 124             |  |  |
|  | WBL2 (O)  | 46                      | 30.1                     | C                       | 49.9                     | D                       |                              |                             |                     | 15              | 124             |  |  |
|  | WBT       | 5                       | 32.1                     | C                       |                          |                         |                              |                             |                     | 15              | 124             |  |  |
|  | WBR1 (I)  | 69                      | 31.8                     | C                       |                          |                         |                              |                             |                     | 15              | 124             |  |  |
|  | WBR2 (O)  | 0                       | 0.0                      | A                       | 39.7                     | D                       |                              |                             |                     | 15              | 124             |  |  |
|  | NBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 320             | 627             |  |  |
|  | NBIU2 (O) | 2                       | 71.7                     | E                       |                          |                         |                              |                             |                     | 320             | 627             |  |  |
|  | NBIL      | 14                      | 92.5                     | F                       | 20.8                     | C                       | 32.2                         | C                           |                     | 320             | 627             |  |  |
|  | NBIT      | 2190                    | 49.7                     | D                       |                          |                         |                              |                             |                     | 113             | 627             |  |  |
|  | NBOT      | 639                     | 40.0                     | D                       |                          |                         |                              |                             |                     | 38              | 282             |  |  |
|  | NBOR      | 12                      | 21.8                     | C                       | 12.4                     | B                       |                              |                             |                     | 50              | 313             |  |  |
|  | SBIU1 (I) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 50              | 365             |  |  |
|  | SBIU2 (O) | 0                       | 0.0                      | A                       |                          |                         |                              |                             |                     | 50              | 365             |  |  |
|  | SBIL      | 3                       | 66.5                     | E                       | 12.4                     | B                       |                              |                             |                     | 50              | 365             |  |  |
|  | SBIT      | 1271                    | 20.7                     | C                       |                          |                         |                              |                             |                     | 50              | 365             |  |  |
|  | SBOT      | 1474                    | 12.4                     | B                       |                          |                         |                              |                             |                     | 83              | 239             |  |  |
|  | SBOR      | 34                      | 13.8                     | B                       |                          |                         |                              |                             |                     | 83              | 239             |  |  |

## 2025 Build PM (Screen 6.2)

| Intersection                     | Movement  | VISSIM Thruput (veh/hr) | Movement Delay (sec/veh) | Movement Equivalent LOS | Approach Delay (sec/veh) | Approach Equivalent LOS | Intersection Delay (sec/veh) | Intersection Equivalent LOS | Storage Length (ft) | Avg. Queue (ft) | Max. Queue (ft) |  |  |
|----------------------------------|-----------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------------|-----------------------------|---------------------|-----------------|-----------------|--|--|
| Roosevelt Blvd & Southampton Rd  | EBL1 (I)  | 99                      | 51.5                     | D                       | 35.3                     | D                       | 32.1                         | C                           | 300                 | 14              | 116             |  |  |
|                                  | EBL2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 300                 | 14              | 116             |  |  |
|                                  | EBT       | 275                     | 31.6                     | C                       |                          |                         |                              |                             | 40                  | 205             |                 |  |  |
|                                  | EBR1 (I)  | 53                      | 32.0                     | C                       |                          |                         |                              |                             | 40                  | 205             |                 |  |  |
|                                  | EBR2 (O)  | 99                      | 30.8                     | C                       |                          |                         |                              |                             | 40                  | 205             |                 |  |  |
|                                  | WBL1 (I)  | 80                      | 38.4                     | D                       | 40.8                     | D                       |                              |                             | 370                 | 26              | 186             |  |  |
|                                  | WBL2 (O)  | 81                      | 40.3                     | D                       |                          |                         |                              |                             | 370                 | 26              | 186             |  |  |
|                                  | WBT       | 461                     | 36.9                     | D                       |                          |                         |                              |                             | 97                  | 368             |                 |  |  |
|                                  | WBR1 (I)  | 359                     | 46.4                     | D                       |                          |                         |                              |                             | 370                 | 97              | 368             |  |  |
|                                  | WBR2 (O)  | 0                       | 0.0                      | A                       |                          |                         |                              |                             | 370                 | 97              | 368             |  |  |
|                                  | NBIU1 (I) | 0                       | 17.5                     | B                       | 27.0                     | C                       |                              |                             | 720                 | 140             | 598             |  |  |
|                                  | NBIU2 (O) | 1                       | 40.6                     | D                       |                          |                         |                              |                             | 720                 | 140             | 598             |  |  |
|                                  | NBIL      | 237                     | 50.6                     | D                       |                          |                         |                              |                             | 720                 | 140             | 598             |  |  |
|                                  | NBIT      | 2111                    | 24.4                     | C                       |                          |                         |                              |                             | 140                 | 598             |                 |  |  |
|                                  | NBOT      | 549                     | 15.1                     | B                       | 15.1                     | B                       |                              |                             | 25                  | 299             |                 |  |  |
|                                  | NBOR      | 96                      | 14.7                     | B                       |                          |                         |                              |                             | 25                  | 299             |                 |  |  |
|                                  | SBIU1 (I) | 14                      | 28.3                     | C                       |                          |                         |                              |                             | 650                 | 91              | 325             |  |  |
|                                  | SBIU2 (O) | 0                       | 0.0                      | A                       | 27.3                     | C                       |                              |                             | 650                 | 91              | 325             |  |  |
|                                  | SBIL      | 283                     | 28.8                     | C                       |                          |                         |                              |                             | 650                 | 91              | 325             |  |  |
|                                  | SBIT      | 1142                    | 26.9                     | C                       |                          |                         |                              |                             | 91                  | 325             |                 |  |  |
|                                  | SBOT      | 1322                    | 44.3                     | D                       | 44.7                     | D                       |                              |                             | 144                 | 624             |                 |  |  |
|                                  | SBOR      | 233                     | 46.9                     | D                       |                          |                         |                              |                             | 144                 | 624             |                 |  |  |
| Roosevelt Blvd & Northgate Dr    | EBL       | 206                     | 47.8                     | D                       | 31.2                     | C                       | 11.1                         | B                           | 52                  | 192             |                 |  |  |
|                                  | EBT       | 1                       | 44.6                     | D                       |                          |                         |                              |                             | 50                  | 192             |                 |  |  |
|                                  | EBR       | 191                     | 13.1                     | B                       |                          |                         |                              |                             | 74                  | 221             |                 |  |  |
|                                  | WBL       | 1                       | 42.9                     | D                       | 40.8                     | D                       |                              |                             | 0                   | 41              |                 |  |  |
|                                  | WBT       | 6                       | 46.7                     | D                       |                          |                         |                              |                             | 1                   | 41              |                 |  |  |
|                                  | WBR       | 1                       | 10.6                     | B                       |                          |                         |                              |                             | 0                   | 56              |                 |  |  |
|                                  | NBL       | 91                      | 86.3                     | F                       | 14.1                     | B                       |                              |                             | 37                  | 149             |                 |  |  |
|                                  | NBT       | 3037                    | 11.9                     | B                       |                          |                         |                              |                             | 11                  | 193             |                 |  |  |
|                                  | NBR       | 7                       | 7.4                      | A                       |                          |                         |                              |                             | 9                   | 190             |                 |  |  |
| Roosevelt Blvd & Old Lincoln Hwy | SBT       | 2807                    | 4.9                      | A                       | 4.9                      | A                       |                              |                             | 31                  | 382             |                 |  |  |
|                                  | SBR       | 22                      | 9.6                      | A                       |                          |                         |                              |                             | 34                  | 388             |                 |  |  |
|                                  | EBL       | 404                     | 104.5                    | F                       | 97.2                     | F                       | 24.0                         | C                           | 337                 | 1516            |                 |  |  |
|                                  | EBT       | 89                      | 88.3                     | F                       |                          |                         |                              |                             | 337                 | 1516            |                 |  |  |
|                                  | EBR       | 300                     | 90.0                     | F                       |                          |                         |                              |                             | 137                 | 930             |                 |  |  |
|                                  | WBL       | 84                      | 78.1                     | E                       | 72.6                     | E                       |                              |                             | 61                  | 298             |                 |  |  |
|                                  | WBT       | 112                     | 70.7                     | E                       |                          |                         |                              |                             | 61                  | 298             |                 |  |  |
|                                  | WBR       | 11                      | 48.6                     | D                       |                          |                         |                              |                             | 73                  | 314             |                 |  |  |
|                                  | NBL       | 291                     | 28.6                     | C                       | 9.8                      | A                       |                              |                             | 49                  | 322             |                 |  |  |
|                                  | NBT       | 2836                    | 7.9                      | A                       |                          |                         |                              |                             | 49                  | 322             |                 |  |  |
|                                  | NBR       | 4                       | 4.0                      | A                       |                          |                         |                              |                             | 42                  | 323             |                 |  |  |
|                                  | SBL       | 40                      | 79.2                     | E                       | 14.7                     | B                       |                              |                             | 215                 | 876             |                 |  |  |
|                                  | SBT       | 2443                    | 13.2                     | B                       |                          |                         |                              |                             | 99                  | 671             |                 |  |  |
|                                  | SBR       | 92                      | 24.8                     | C                       |                          |                         |                              |                             | 0                   | 65              |                 |  |  |