

Washington Avenue Parking & Loading Analysis Broad to Columbus

Updated: 7/29/2020

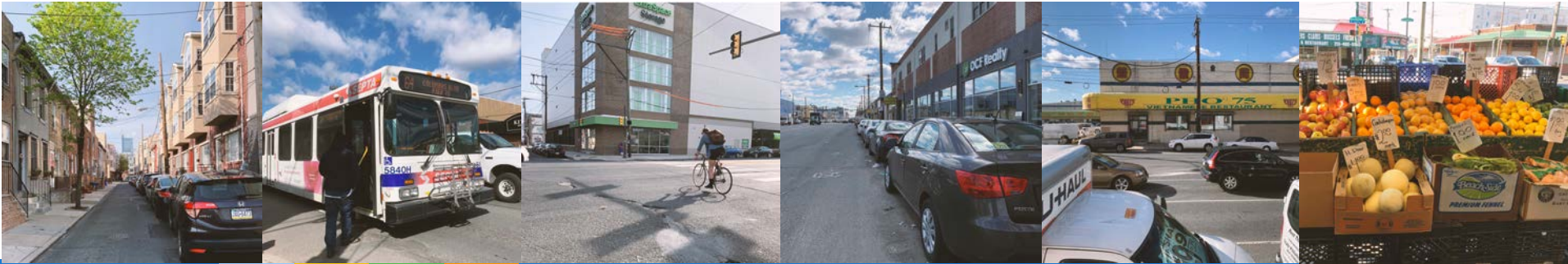
OFFICE OF 
**TRANSPORTATION,
INFRASTRUCTURE
& SUSTAINABILITY**



Project Overview

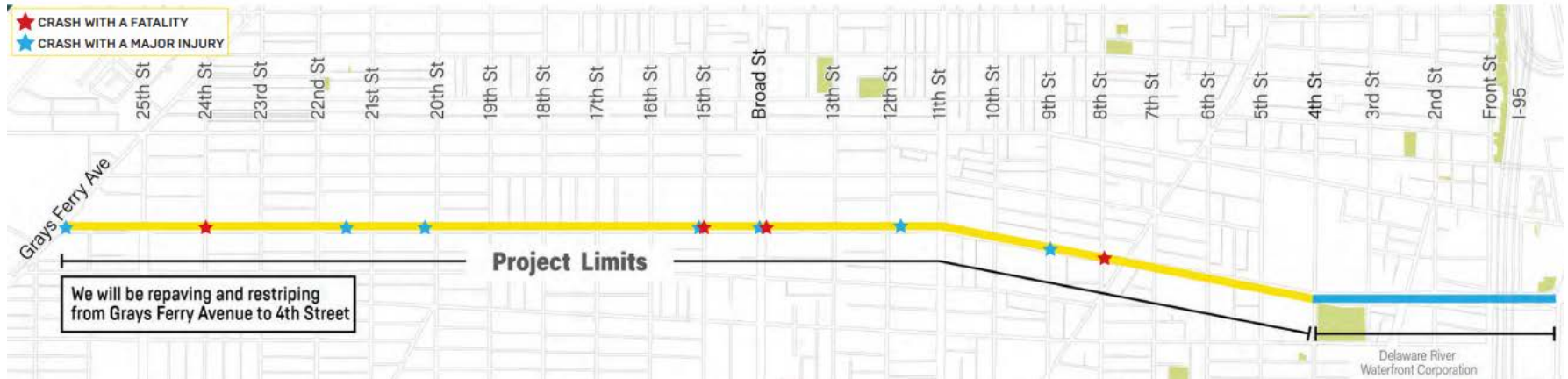
Project Overview

Washington Avenue is scheduled to be repaved in 2021 with committed federal funding, which gives the City the opportunity to improve how it functions for all users.



Project Limits & Crash History

(2012-2017)





How did we get here?

Public Input

- Public meetings and input (2013 – 2015) determine need for more study

Parking & Loading Studies

- East side **parking & operational impact analysis** (2016)
- East side **business loading survey** (2016)
- West side **parking & operational impact analysis** (2019)
- West side **business loading survey** (2019)

Traffic Analyses

- Full-corridor (Grays Ferry to 4th Street) **traffic analysis** (2019)
- Full corridor (Grays Ferry to Columbus) **Origin/Destination Analysis** (2020)



Analysis Key Findings

1. **Businesses** have **unmet loading needs**
2. **Parking** is not serving businesses or residents well
3. Traffic impacted by **double-parking and median parking**
4. Traffic can be improved by **optimizing signal timing**
5. Lane reductions will cause some **increased travel time during rush hours** (5 - 10 seconds a block) when combined with signal optimization
6. During non-rush hours, lane reductions will not increase travel time
7. **Washington Avenue is dangerous**, especially for people walking and biking, HIN



Business Loading Survey

Understanding Business Needs (2016-2019)



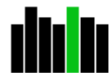
We identified **167 Active businesses**



We visited each business **at least once**



We asked **owners or managers** to **complete a survey**



We got **responses from about 80%** of businesses

Businesses that Responded (East Side Only)

Number	Business Name	Business Address
1	Safe Drugs Pharmacy	501 Washington Avenue
2	Omkaara	510 Washington Avenue
3	Young Hearts Child Care and Learning Center	520 Washington Avenue
4	Tu's Tea	525 Washington Avenue
5	William's Gold Jewelry	529 Washington Avenue
6	Kevin's Hair Salon	538 Washington Avenue
7	US Maxim Show Room	539 Washington Avenue
8	Dentists on Washington	544 Washington Avenue
9	Khmer-Angkor	600 Washington Avenue
10	New World	600 Washington Avenue
11	Ba Le	606 Washington Avenue
12	Angkor Jewelry	640 Washington Avenue
13	Cellular Inc	642 Washington Avenue
14	Overstock	644 Washington Avenue
15	Cellular 2000	649 Washington Avenue
16	Steeldoors	701 Washington Avenue
17	Sunshine Jewelry	702 Washington Avenue
18	Safelite Auto Glass	709 Washington Avenue
19	Shine Salon (Hair & Nails)	712 Washington Avenue
20	Chinh's Paper Towel Supply	824 Washington Avenue
21	Anthony's Coffee	903 Washington Avenue
22	TransMex	906 Washington Avenue
23	Taqueria Veracruzana	908 Washington Avenue
24	United Check Cashing	920 Washington Avenue
25	Western Union Cash Checking	920 Washington Avenue
26	Cricket Wireless Authorized Retailer	930 Washington Avenue
27	DiBruno Brothers Cheese	930 9th Street
28	Law Offices of Elaine Cheung	930 Washington Avenue
29	Tibet	930 Washington Avenue
30	Scoreboard Tacos and Tacos	932 Washington Avenue
31	OK Salon	937 Washington Avenue

Number	Business Name	Business Address
32	OK Salon	937 Washington Avenue
33	Nigro's Auto Body	939 Washington Avenue
34	Z Discount Furniture	945 Washington Avenue
35	Advance Auto Parts	1001 Washington Avenue
36	CVS	1001 Washington Avenue
37	Esposito's Meats	1001 9th Street
38	Sherwin Williams	1001 Washington Avenue
39	Medina Grocery	1028 Washington Avenue
40	7-Eleven	1034 Washington Avenue
41	Carl's Poultry	1037 9th Street
42	Friendly Lounge	1039 8th Street
43	MetroPCS Authorized Dealer	1040 Washington Avenue
44	Giordano's Produce	1043 9th Street
45	APLus Convenience Store	1100 Washington Avenue
46	Nam Phong	1100 Washington Avenue
47	Anastasi Seafood	1101 Washington Avenue
48	CK Auto Image	1101 Passyunk Avenue
49	Rock School for Dance Education	1101 Broad Street
50	Cellphone Central LLC	1110 Washington Avenue
51	Viet Huong	1118 Washington Avenue
52	Hung Vuong Supermarket	1122 Washington Avenue
53	Winkie	1122 Washington Avenue
54	Penske Truck Rental	1216 Washington Avenue
55	Enterprise Rent-A-Car	1236 Washington Avenue
56	Save-A-Lot	1300 Washington Avenue
57	Philly Marble & Tile	1322 Washington Avenue
58	AOK Autobody & Glass	1330 Washington Avenue
59	Discount City Furniture	1342 Washington Avenue
60	U-Haul	1018-28 12th Street
61	Bro Nail Supply	506-508 Washington Avenue
62	Patient Care Center	801-21 Washington Avenue

Note: This list includes only those businesses which responded to the survey. Additional outreach has been done since the survey, which includes additional businesses and business organizations.



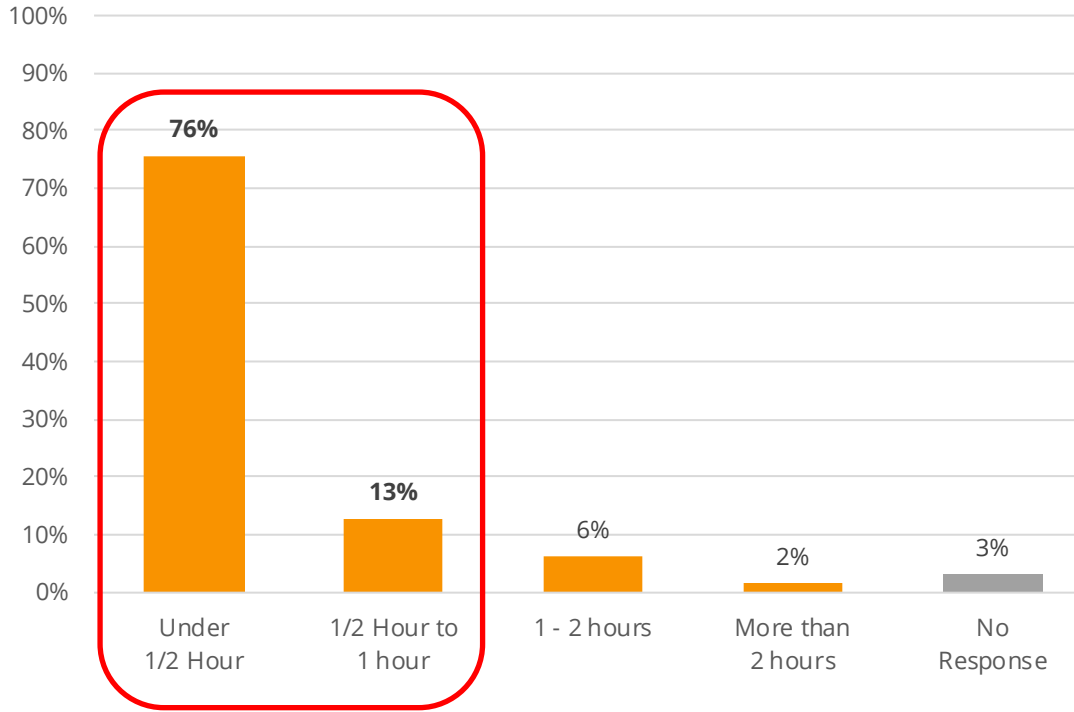
Some of the questions we asked

- Where does your business load and unload?
- Where do you receive your packages?
- Do your deliveries often park in the median of the street?
- Do your deliveries often double-park in the active traffic lane?
- How often do you take deliveries?
- What times of day and days do you take on-street deliveries?
- How long does a standard delivery take?
- What types of vehicles typically load and unload at your business?
- How much flexibility is there in type of vehicle that loads or unloads?
- Does your business get deliveries or pickups from a postal service (e.g. UPS or FedEx)?
- For the space directly in front of your business, what would be your ideal solution?
- Would you be willing to move your business loading to have more convenient parking for your customers?
- Do your customers need special pick-up zones instead of regular parking?



Existing Loading Needs & Practices: Broad to Columbus

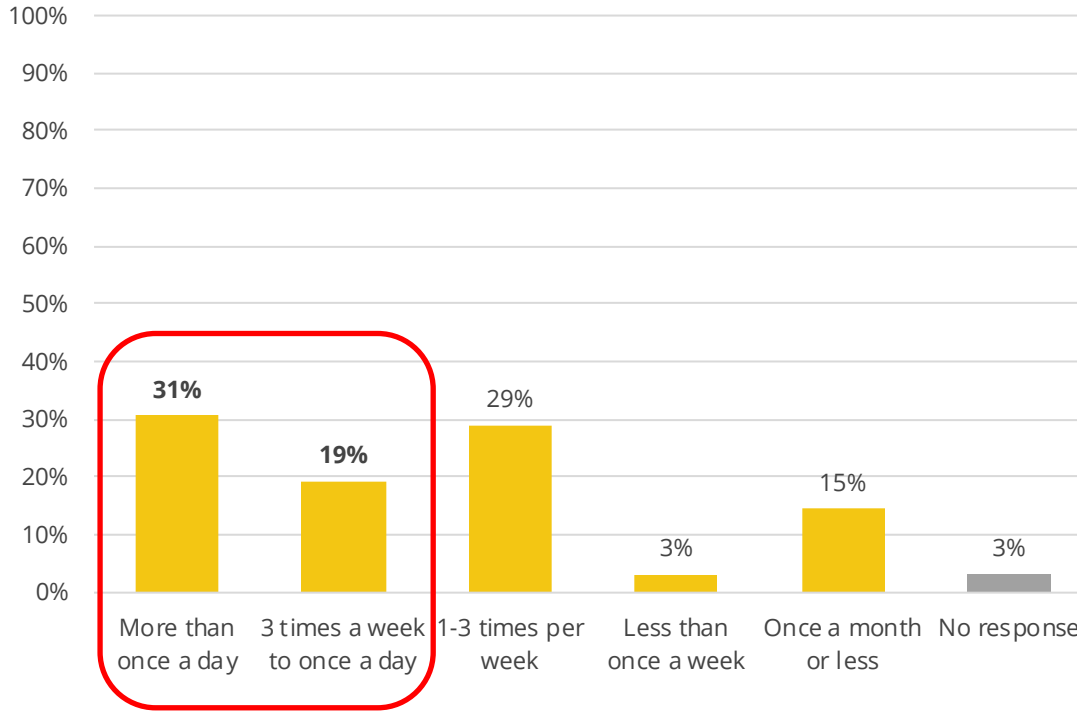
How long does a typical delivery take?



89% of deliveries to respondents take under 1 hour to complete.

Note: 3% of respondents stated that they do not make or receive deliveries/have no loading needs.

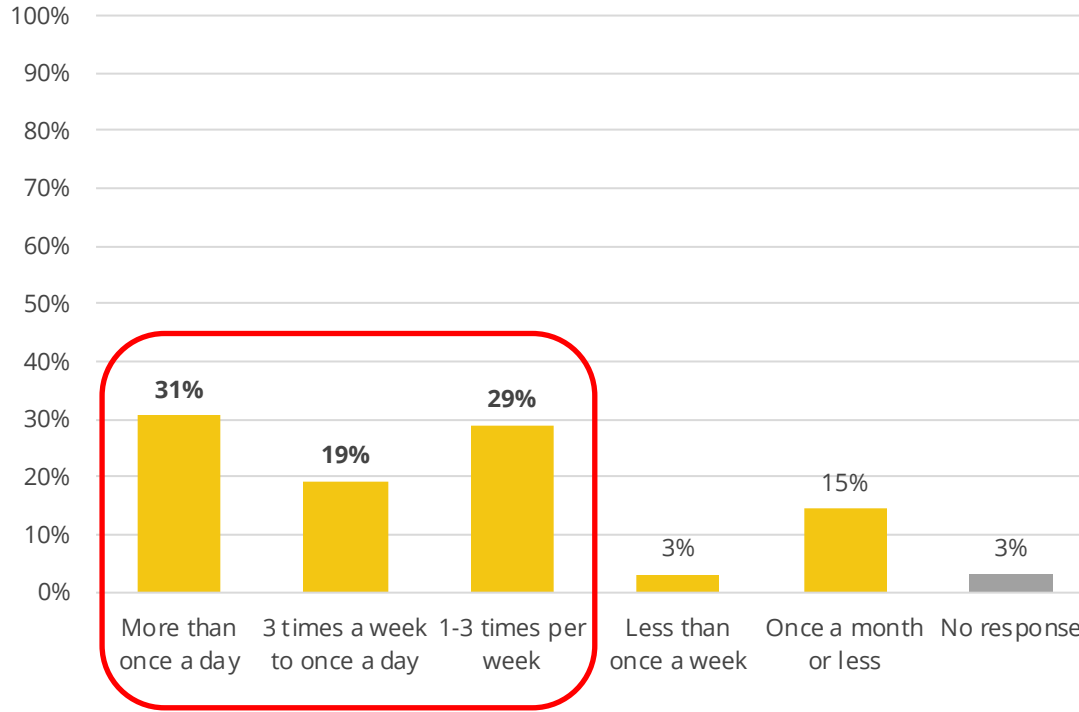
How often do you receive deliveries?



50% of respondents load or unload deliveries at least 3 times a week.

Note: 3% of respondents stated that they do not make or receive deliveries/have no loading needs.

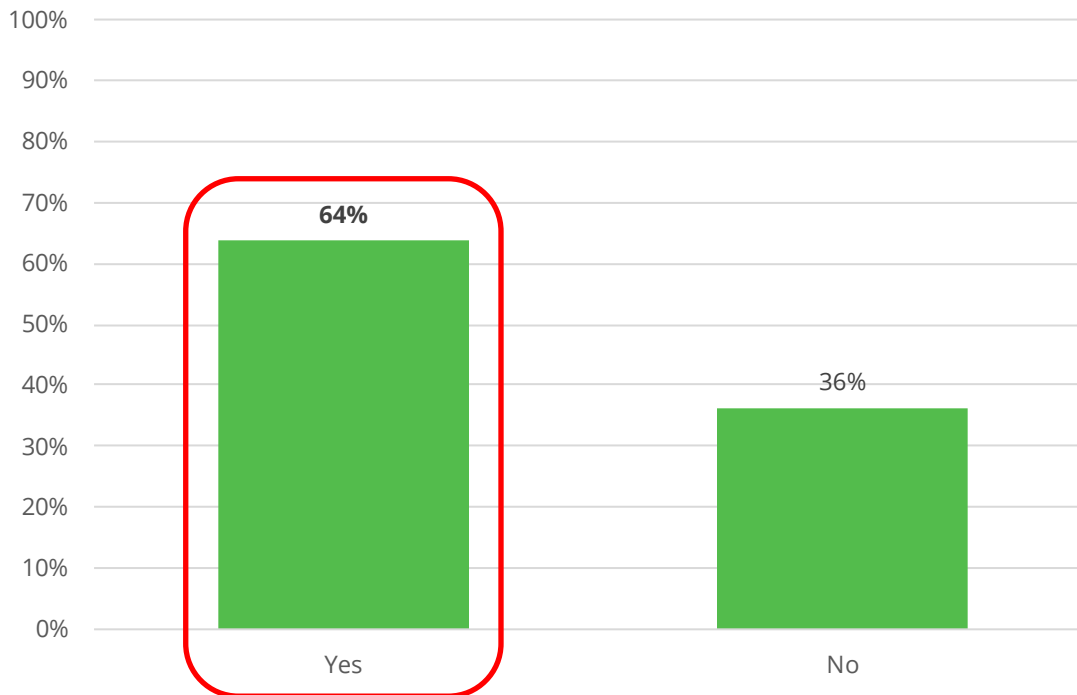
How often do you receive deliveries?



79% of respondents load or unload deliveries at least once a week

Note: 3% of respondents stated that they do not make or receive deliveries/have no loading needs.

Do your deliveries double park?

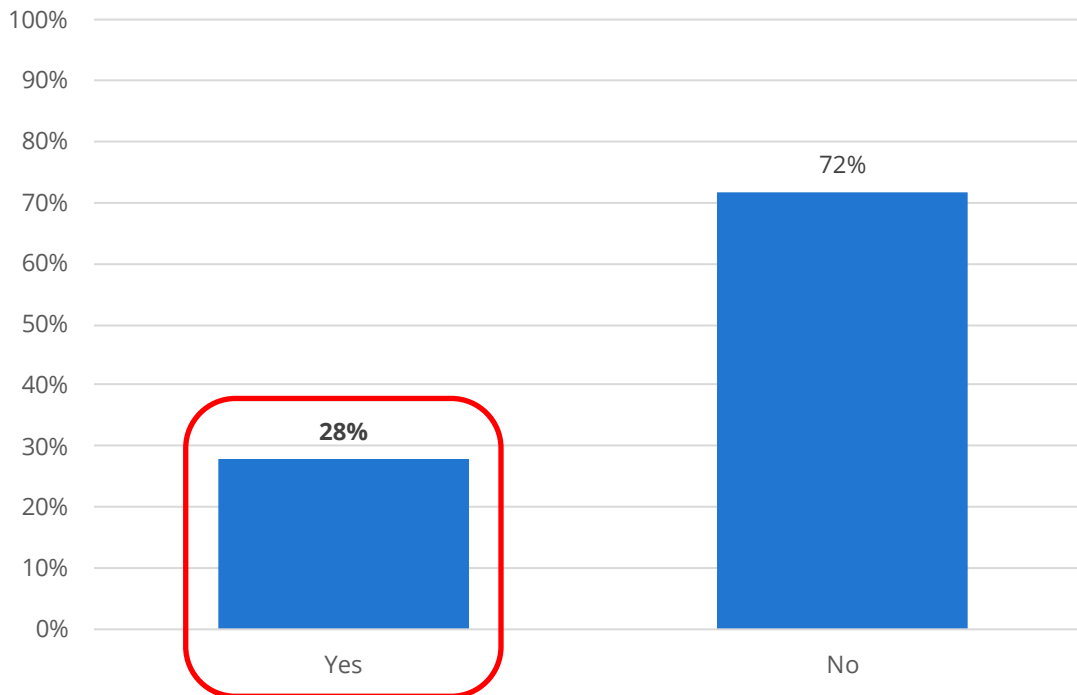


64% of respondents stated that their deliveries double-park.

Note: 47% of respondents declined to answer this question, which could mean the "yes" column is under-reported.

Note: 3% of respondents stated that they do not make or receive deliveries/have no loading needs.

Do your deliveries park in the median?

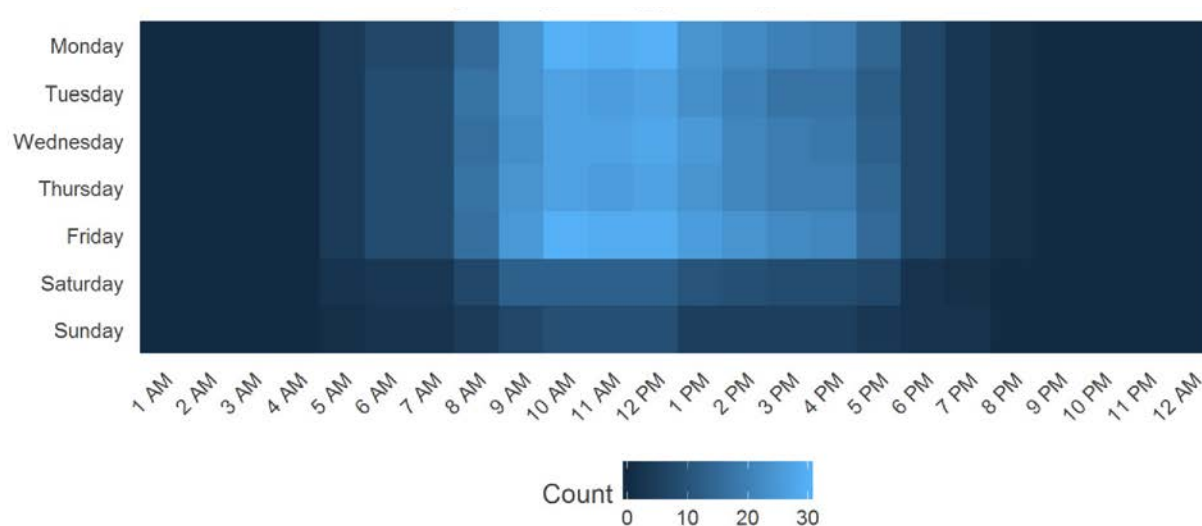


28% of respondents stated that their deliveries park in the median.

Note: 48% of respondents declined to answer this question, which could mean the "yes" column is under-reported.

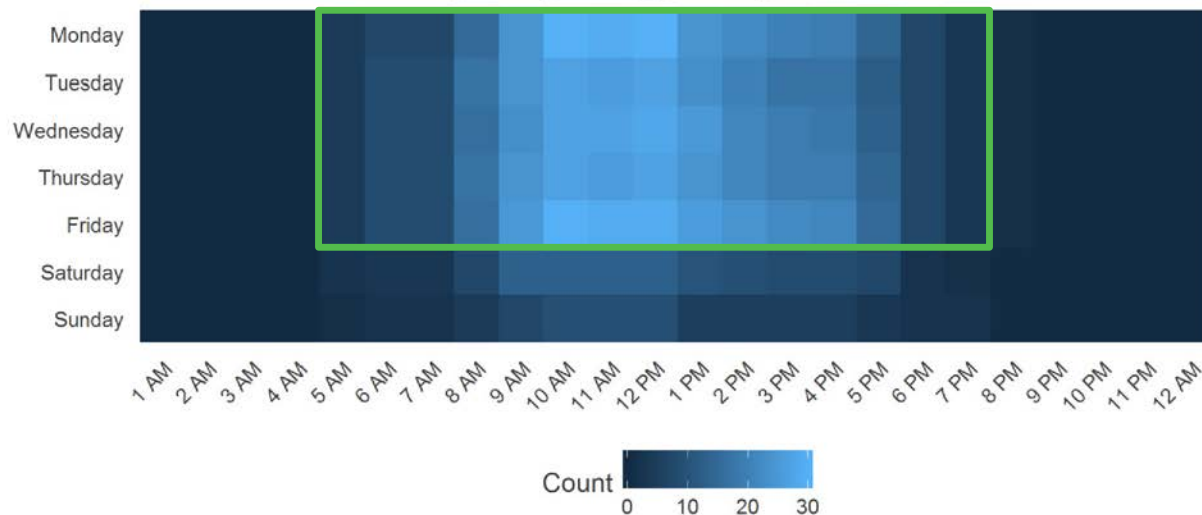
Note: 3% of respondents stated that they do not make or receive deliveries/have no loading needs.

What times of day do you typically load/unload?



Note: 3% of respondents stated that they do not make or receive deliveries/have no loading needs.

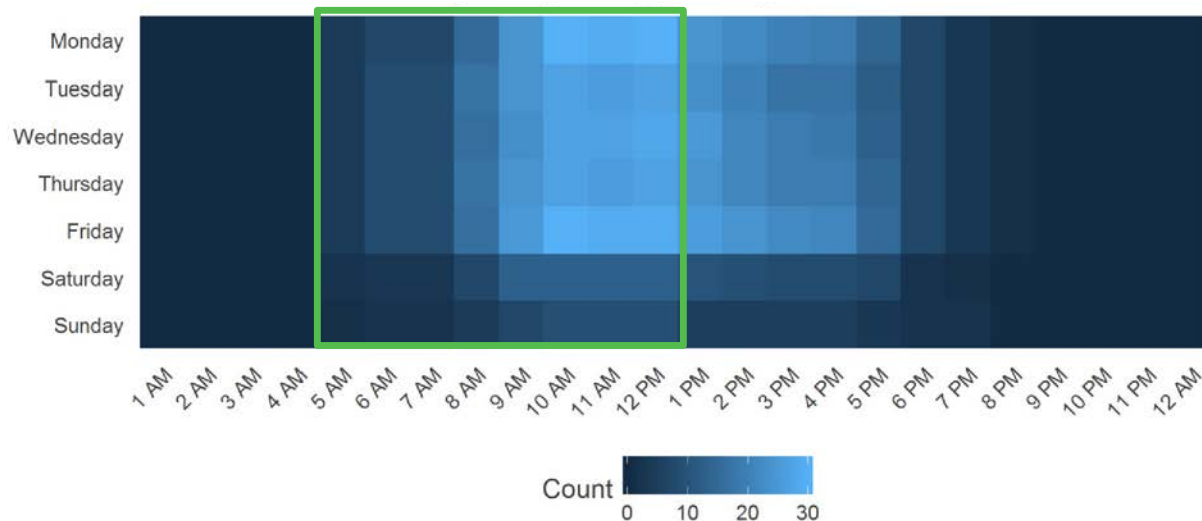
What times of day do you typically load/unload?



66% of respondents state that they only get deliveries on weekdays.

Note: 3% of respondents stated that they do not make or receive deliveries/have no loading needs.

What times of day do you typically load/unload?



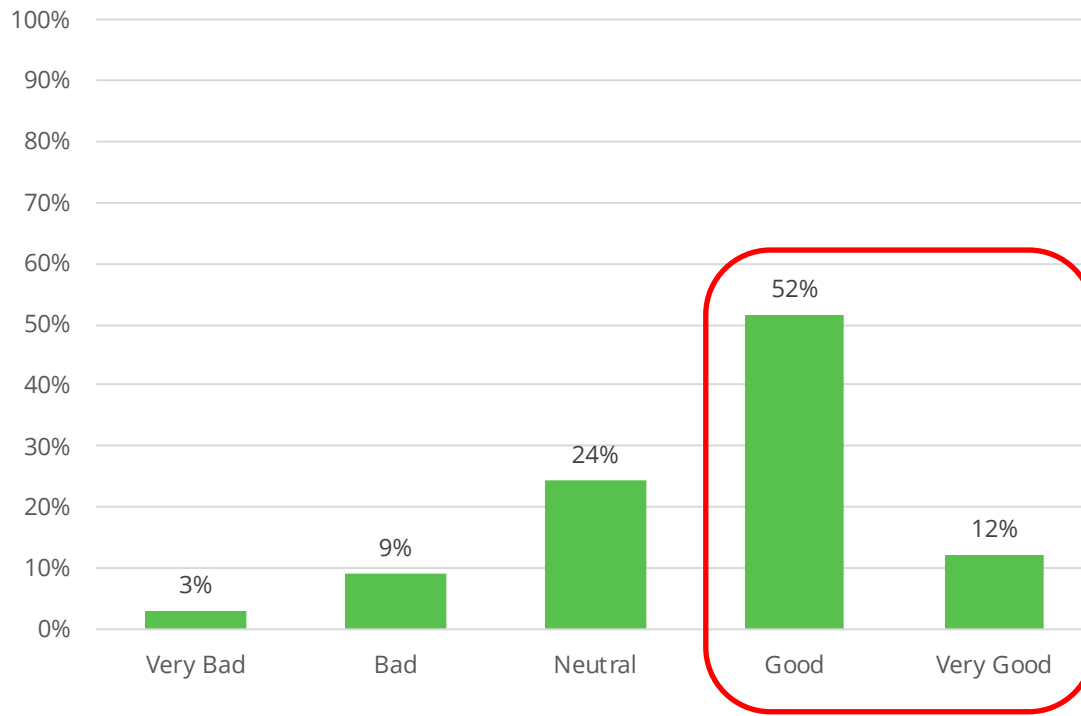
91% of respondents state that they receive deliveries between 5am and 12pm.

Note: 3% of respondents stated that they do not make or receive deliveries/have no loading needs.



Business Preferences for Future Changes: Broad to Columbus

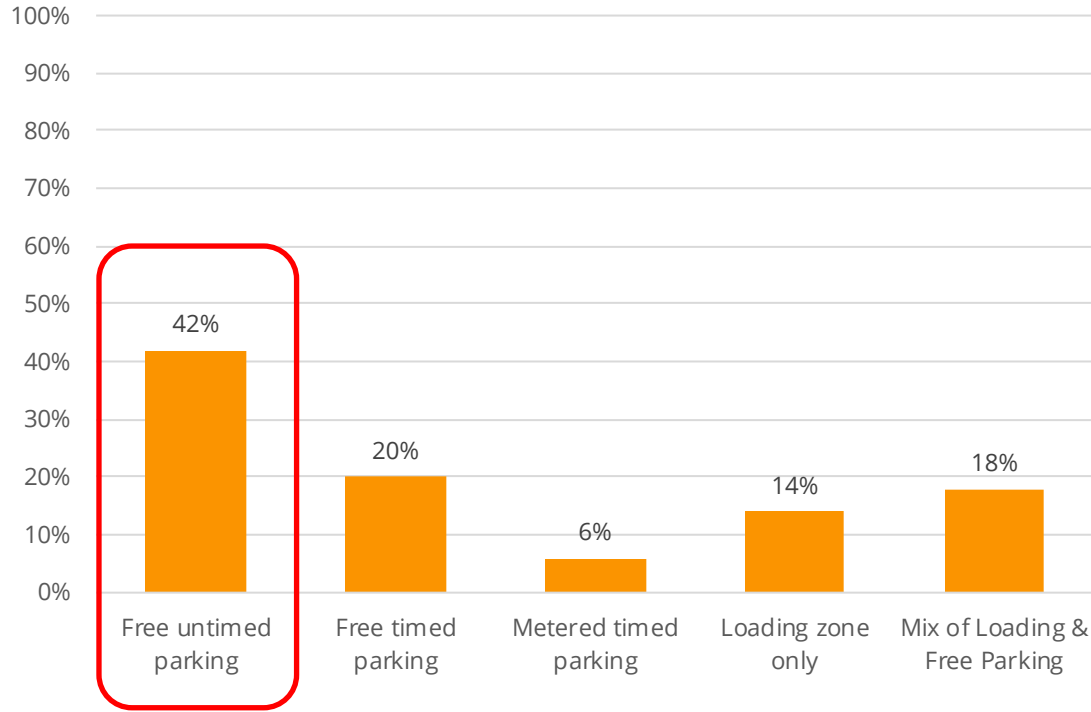
How good a loading solution is a loading zone?



Businesses were extremely positive about dedicated loading zones in this question, with **64% saying the solution was good or very good**, and only 12% saying it was bad or very bad.

Note: 3% of respondents stated that they do not make or receive deliveries/have no loading needs.

What is your preference for out front?



42% of businesses said they would prefer free untimed parking in front of their business (what exists today) even though many believe a dedicated loading zone is a good long-term solution to loading needs.

Note: 3% of respondents stated that they do not make or receive deliveries/have no loading needs.



Why this discrepancy?

In person, the **business survey respondents often identified the tension between their own desire to be able to park for free all day and the need to prevent others from doing so.** Some businesses cited people who work in Center City parking their car on Washington Avenue for the day, to ride their bike or take the subway in to work.



Observed Parking & Loading Behavior: Broad to Columbus

Inefficient Parking Turnover



Expected:

2-3 hours on a commercial corridor



Observed:

6.2 hours on the 800 block (*lowest*)

11.6 hours on the 900 block (*highest*)



Double-Parking



Sidewalk Parking



Median Parking

Insufficient Loading Spaces



The average duration for vehicles double parking, median parking, or parking in restricted spaces was almost **always under an hour, and often as short as 15 minutes or less.**



Why turnover is important:

- Business customers cannot find parking, which means **they might double-park, park in the median, or simply choose not to shop along Washington Avenue.**
- Businesses cannot load or unload at the curb, which means **trucks and other large vehicles might double-park or park in the median. This causes traffic flow issues and sight line issues.**
- Near-neighbors cannot use parking on Washington Avenue in the evening as overflow when cars never move from their spaces. This **can create parking pressure in neighborhoods around Washington Avenue.**



The Goal:

Balance the needs and desires of individual businesses with overall corridor functionality to make parking and loading operations work for everyone on Washington Avenue.



East Side Block by Block Proposals

500 Block Existing & Proposed



500 Block Proposed - Rationale

The following responded to the survey:

Omkara Tattoo

Young Hearts Daycare

Tu's tea

Kevin's Hair Salon

Dentists on Washington

Bro. Nail and Paper Supply

Young Hearts explicitly requested loading out front during the morning and afternoon hours for daycare pick-up and drop-off. **Tu's Tea** also expressed a preference for loading out front. Observed loading behavior outside **Skyline** indicates that a loading zone is needed there as well. The rest of the businesses expressed their preference for free all-day parking. **We propose free time-limited parking to encourage appropriate turnover.**



600 Block Existing & Proposed



- Untimed parking
- Timed parking
- Loading
- Disabled parking
- No parking
- Driveway
- SEPTA bus stop



- Untimed parking
- Timed parking
- Loading
- Disabled parking
- No parking
- Driveway
- SEPTA bus stop

600 Block Proposed - Rationale

Khmer-Angkor Jewelry stated they only get deliveries via USPS or FedEx and did not specify what they want on the block because they have the plaza parking lot.

Ba Le Bakery does all of their loading in the plaza parking lot.

New World Vision Center gets deliveries from a large truck on Washington as well as smaller trucks in the plaza's parking lot.

Cellular 2000 only gets deliveries from UPS and FedEx, prefers free parking in front of their storefront.

Cellular Inc. gets FedEx and UPS deliveries and would prefer a loading zone in front of their business.



700 Block Existing & Proposed



700 Block Proposed - Rationale

Steel Doors gets deliveries from FedEx and USPS at least once a day. They prefer free parking on the block.

Sunshine Jewelry gets deliveries from USPS. They think a loading zone would work well on their block.

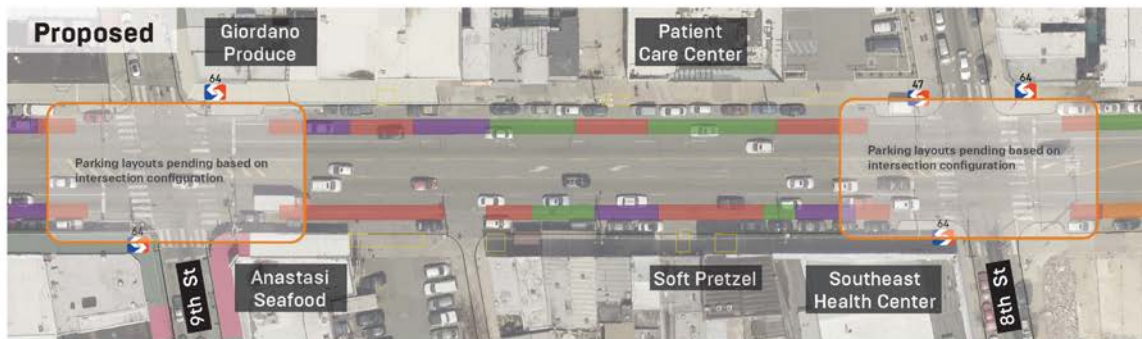
Satellite Auto Glass does all loading on Passyunk Avenue. They prefer free parking for customers on Washington Avenue.

CK Auto Image loads in the median. They would be willing to load up to half a block away to get free customer parking out front.

Mid-City Tire & Auto did not respond to the survey.



800 Block Existing & Proposed



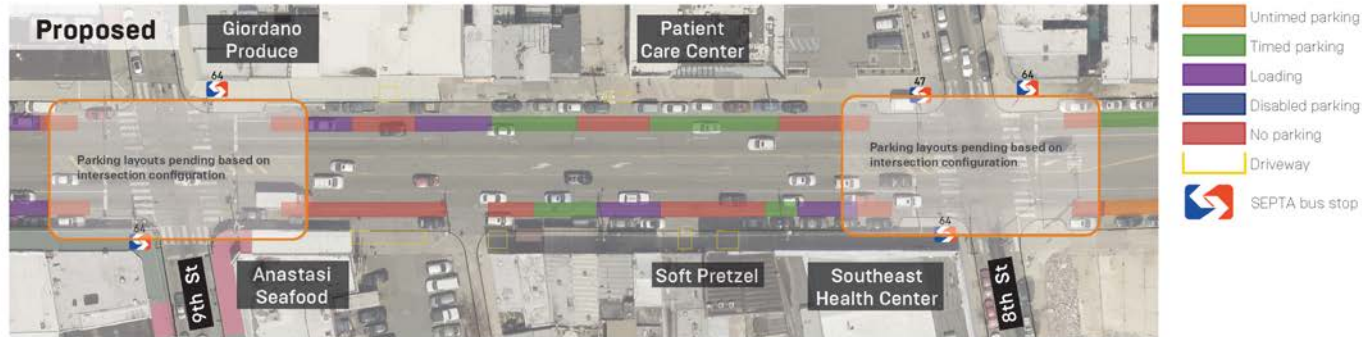
800 Block Proposed - Rationale

Giordano Produce does all their loading on the street. Their comment was, "Parking works at present, leave us alone. PPA enforcement is really annoying and scares away customers."

Anastasi Seafood does all of their loading off-street in the lot next door, but customers double-park. They prefer on-street parking. (Note: Anastasi Seafood is closing due to a planned development on this corner).

Patient Care Center gets deliveries at least once a week. A loading zone would be nice in the morning and evening, but they want free customer parking throughout the day.

Southeast Health Center did not respond to the survey.



900 Block Existing & Proposed



900 Block Proposed - Rationale

The following responded to the survey:

TransMex
Taqueria Veracruzana
United Check Cashing
Cricket Wireless
Scoreboard Sports Grill
Nigro's Auto Body
Z Discount Furniture
Law Offices of Elaine Chung
Tibet

Businesses on the 900 Block of Washington have mixed loading needs. The Italian Market's loading needs necessitate loading zones at the corner of 9th street, but existing parking lots on the North and South sides of the block allow off-street parking for the other businesses.

7 of the 9 businesses stated they prefer free on-street parking for customers on Washington Avenue.



1000 Block Existing & Proposed

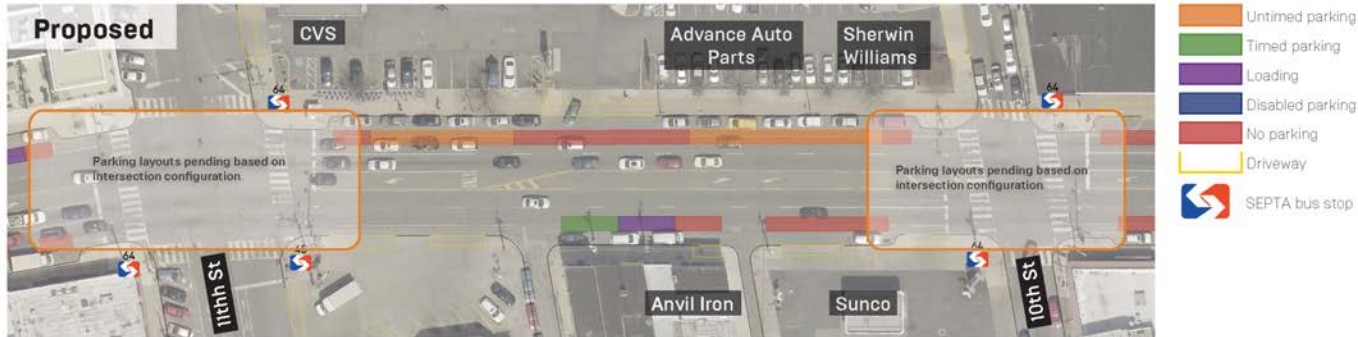


1000 Block Proposed - Rationale

The following responded to the survey:

Advance Auto Parts
CVS/Pharmacy
Sherwin Williams
Medina Grocery
7-Eleven

Almost every business on this block has off-street parking for customers. The presence of large driveways for this off-street parking means that on-street parking is limited. A loading zone is proposed for the south side of the block to accommodate **Anvil Iron Works**. Untimed loading is preserved for the north side of the street to provide longer-term parking to the residents of **the Lofts at Bella Vista**, which lost street parking after the 11th Street protected bike lane project.



1100 Block Existing & Proposed



1100 Block Proposed - Rationale

The following responded to the survey:

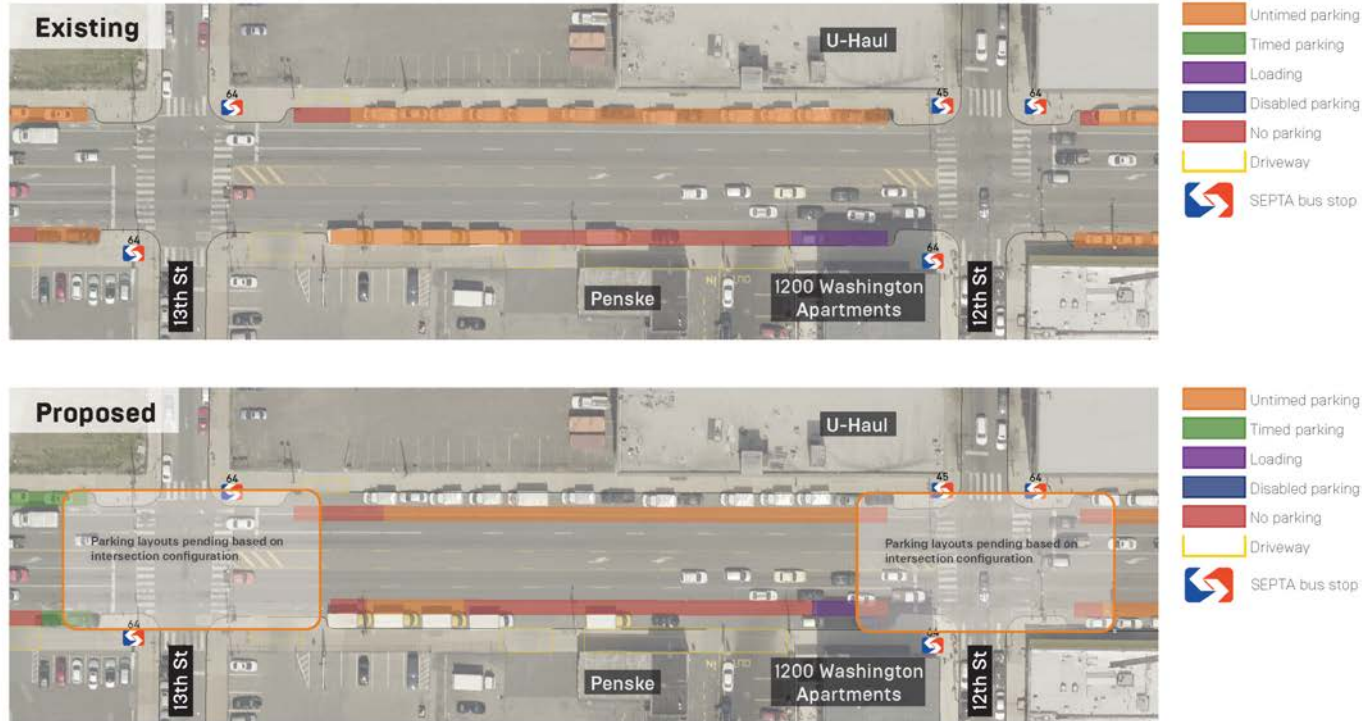
Nam Phong
Cell Phone Central LLC
Viet Huang
Hung Vong Supermarket
U-Haul

Nam Phong, Cell Phone Central LLC, Viet Huang, and Hung Vong Supermarket do their loading on 12th Street, 11th Street, or in the Wing Phat Plaza parking lot. All are primarily concerned with customer parking.

U-Haul has a parking lot but uses Washington Avenue as well as side-streets for truck storage. **Whether parking should remain untimed is up for discussion with Council and neighbors.**



1200 Block Existing & Proposed



1200 Block Proposed - Rationale

The following responded to the survey:

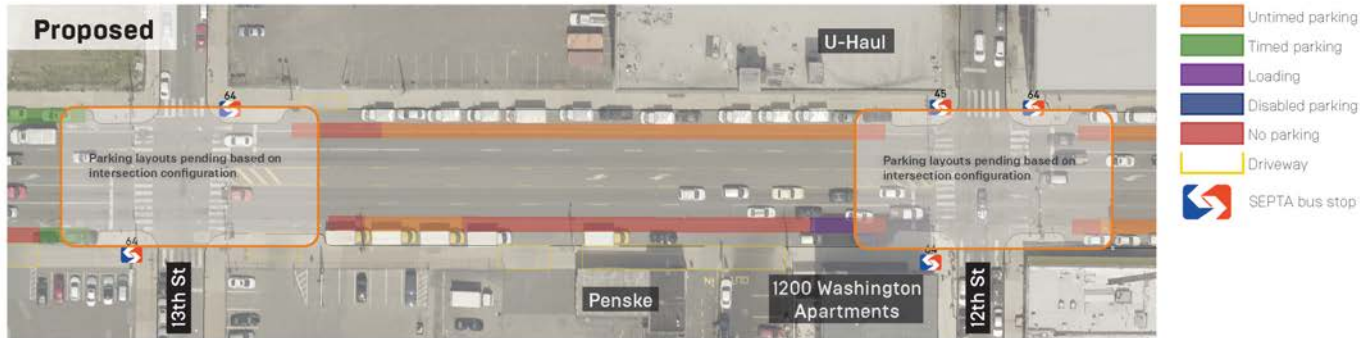
U-Haul

Penske Truck Rental

Enterprise Rent-A Car

Penske and **Enterprise** both have off-street parking lots that they can and do use for deliveries and loading. Penske does use some street parking for truck storage and states **they would like to maintain free all-day parking**. Enterprise has the same preference.

U-Haul has a parking lot but uses Washington Avenue as well as side-streets for truck storage. **Whether parking should remain untimed is up for discussion with Council and neighbors.**



1300 Block Existing & Proposed



1300 Block Proposed - Rationale

The following responded to the survey:

Save-A-Lot

Philly Marble and Tile

AOK Auto Body & Glass

Discount City Furniture

The Rock School

All the businesses on this block currently use the spaces out front for loading, unloading, and/or vehicle storage. The Rock School has painted the curb in front of their building yellow and puts cones out during student pick-up and drop-off. **We propose to formalize the loading activities that are already occurring, with timed loading zones that switch to parking during off-hours.**





Parking & Effective Capacity Impacts

Effective Capacity: Untimed Parking

Number of Spaces



40' = 2 parking spaces

Effective Capacity (worst case)



40' = 2 parking spaces

2 spaces =
2 cars
parked

Effective Capacity: Washington Avenue Today

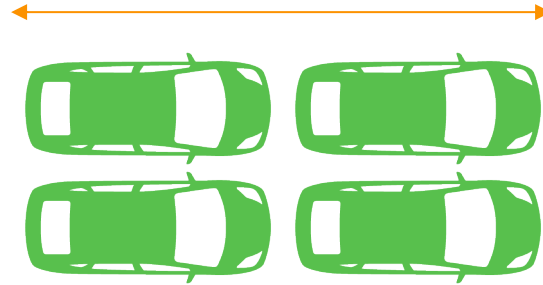
Number of Spaces



40' = 2 parking spaces

2 spaces =
4 cars
parked

Effective Capacity (observed)



40' = can accommodate 4 cars in 12
hours when people park for an
average of 6 hours

Effective Capacity: Proposed Timed Parking

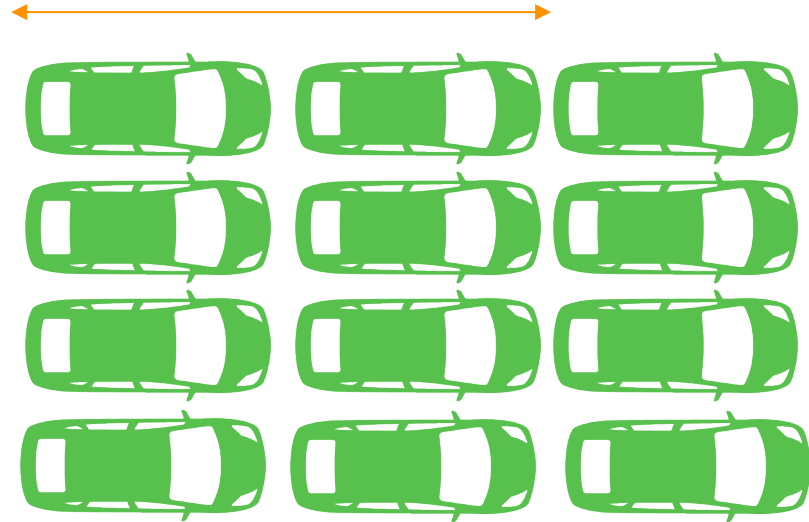
Number of Spaces



40' = 2 parking spaces

**2 spaces =
12 cars
parked**

Effective Capacity (proposed)



40' = can accommodate 12 cars in 12 hours when people park for an average of 2 hours (max. limit)

Parking & Capacity Impact Findings

Washington Avenue East

Existing Spaces	Proposed Spaces*	Net Space Change	Effective Capacity Change
225	144	-81	+320

**Includes 62 designated loading spaces*

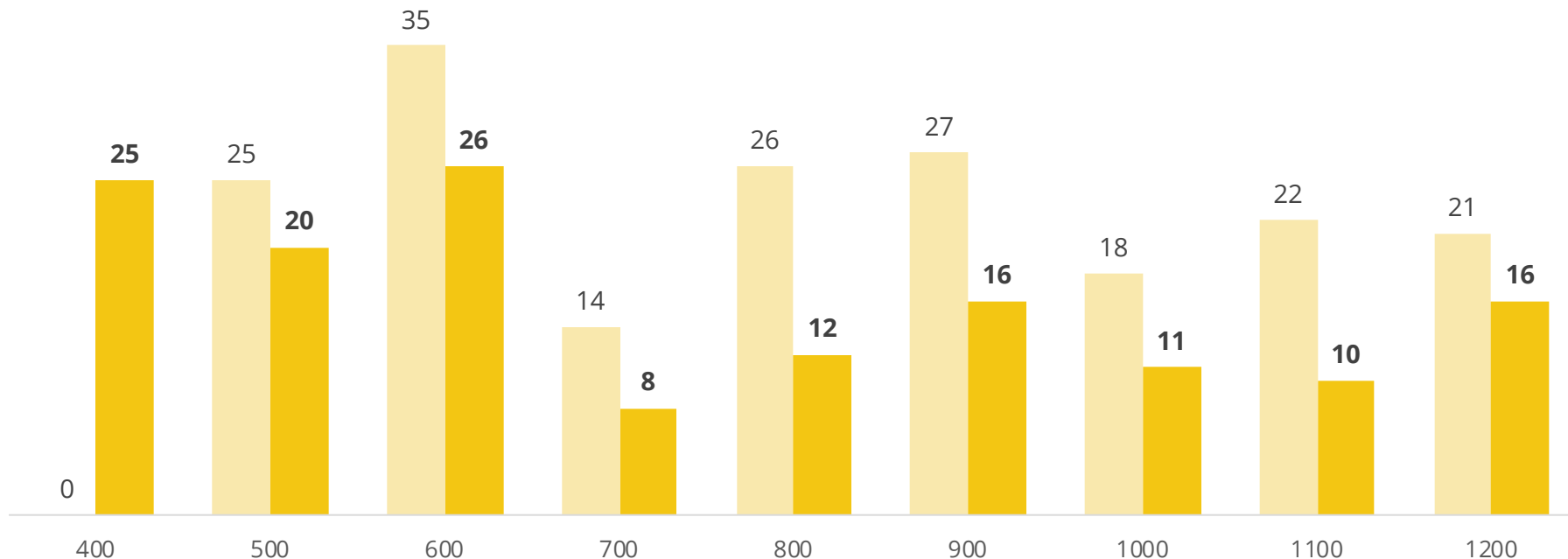
Washington Avenue West

Existing Spaces	Proposed Spaces*	Net Space Change	Effective Capacity Change
356	230	-126	+178

**Includes 24 designated loading spaces*

Washington Avenue East Existing & Proposed Number of Spaces*

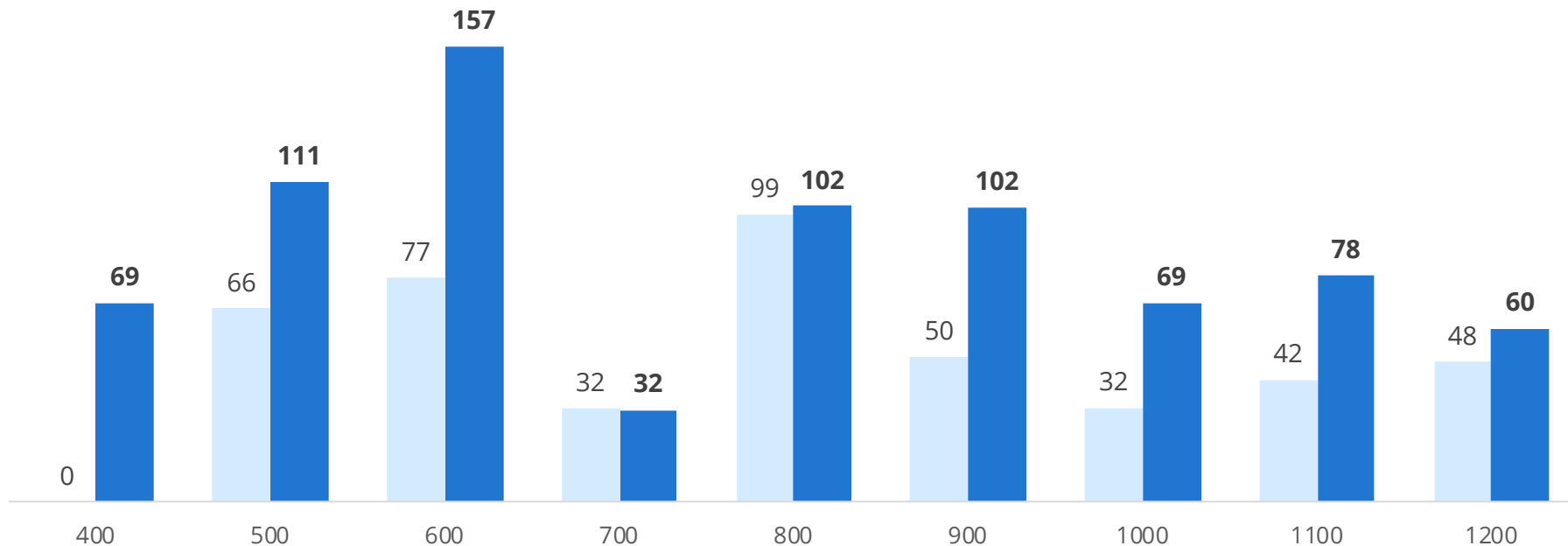
Existing Spaces Proposed Spaces



*Number of spaces assumes 19' of parking per vehicle. Loading zones are included in this calculation.

Washington Avenue East Existing & Proposed Effective Capacity*

Existing Capacity Proposed Capacity



*Existing capacity is based on average observed turnover, proposed assumes 2-hour timed parking and 1-hour loading zones, all used for the maximum time allowed.

Intersection Design & Parking Impacts

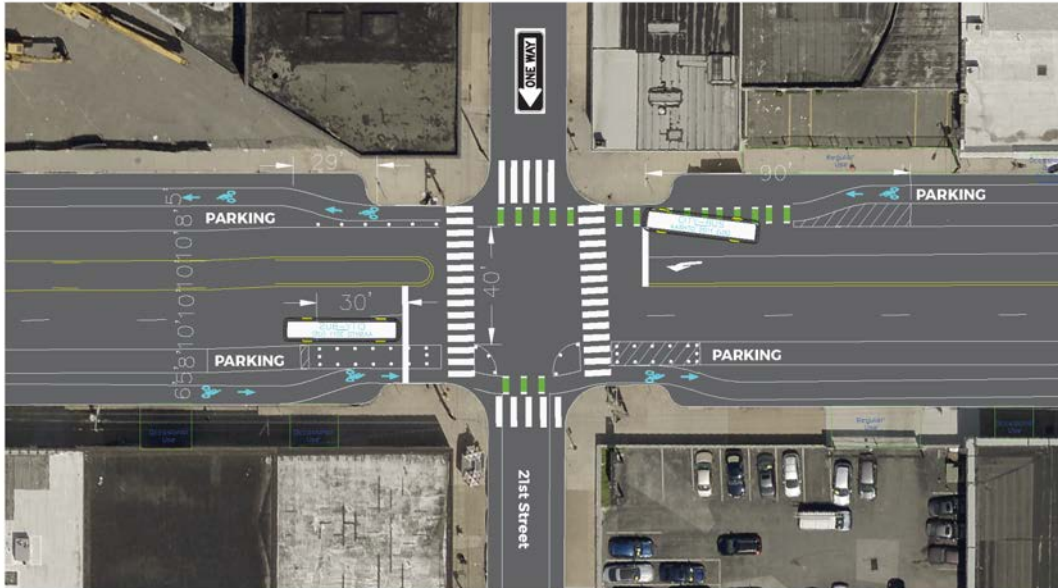
The chosen cross-section will determine the design of each intersection. **Some intersection designs will have a greater impact on parking than others.**



The 3-Lane cross section allows for bus boarding islands on both sides of Washington Avenue. **This configuration has a minimal impact on parking.**

Intersection Design & Parking Impacts

The chosen cross-section will determine the design of each intersection. **Some intersection designs will have a greater impact on parking than others.**



The 4-Lane cross section requires that buses curb on one side of the street, which **requires additional parking loss at the corners for bus clearance and bike lane sight-lines.**



Summary & Next Steps



Summary & Take Away

Although parking loss is expected, **parking capacity will increase** with timed parking, **deliveries will have dedicated space** to load and unload, and **neighbors will be able to park overnight** in spaces that current see little or no turnover on an average day.

The parking and loading proposed **balances the stated desires of businesses to maintain free parking with what analysis shows is necessary** for appropriate turnover on Washington Avenue.

These parking & loading changes **can be implemented regardless of what cross-section is eventually chosen** for Washington Avenue.



Follow-Up & Ongoing Communication

- Inform key stakeholders of the survey results.
- Make survey results available online.
- Review block-by-block parking and loading with businesses to fine-tune things like specific hours for loading zones.
- Determine preferred cross-section and prepare Engineering Plan.
- Continue regular communications before, during, and after paving in 2021.



Thank You