

Memorandum



To: Alex M. Smith, Director Art Commission
From: Kharter Ratliff, Architectural Projects Coordinator
Date: July 2, 2025
Re: Request for Concept Review

We respectfully request a concept review for the Phase 2 Phipps Renovation and Addition project at Health Care Center No. 3, located at 555 S. 43rd Street, Philadelphia, PA 19104 (with the separate address for the Phipps Wing being 4217-21 Chester Ave., Philadelphia, PA 19104).

This project is the second of three phases of renovations, the first phase being the addition of a new public elevator between the Main Building and the Phipps Wing completed in 2023. The budget for this second phase is estimated at \$2,740,000. CPO reached out to Marguerite Anglin, the Public Art Director for Creative Philadelphia, to make an agreement to defer the percentage of capital funding set aside for the Percent for Art Program until the third and final phase of renovations of the Health Center 3's Main Building.

The design proposals for all three phases are prepared by Lisa J. Armstrong, Principal Architect at A K Architecture. A brief description of the Phipps renovation project is stated below, and the enclosed presentation package shows the intended extent of work.

The design proposal for the renovation of the Phipps Wing includes interior renovations of two stories and a level below grade, excavation for the addition of a new elevator, new exterior finishes and an addition of a flex space at the ground floor that will be available for public use. New landscaping and hardscaping on the east side of the building's exterior and along Chester Avenue are also part of the proposed site renovations.

Thank you for your attention. Please contact me directly for any further information regarding the scope of the project.

cc: Pedro Pinto, Deputy Director, Capital Program Office
James Lowe, Project Director, Capital Program Office
Lisa Armstrong, AIA, Design Professional, A K Architecture
File: Project # 14-23-4990-01, Section 2.12



CITY OF PHILADELPHIA

CAPITAL PROGRAM OFFICE

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MANAGING DIRECTOR - ADAM K. THIEL

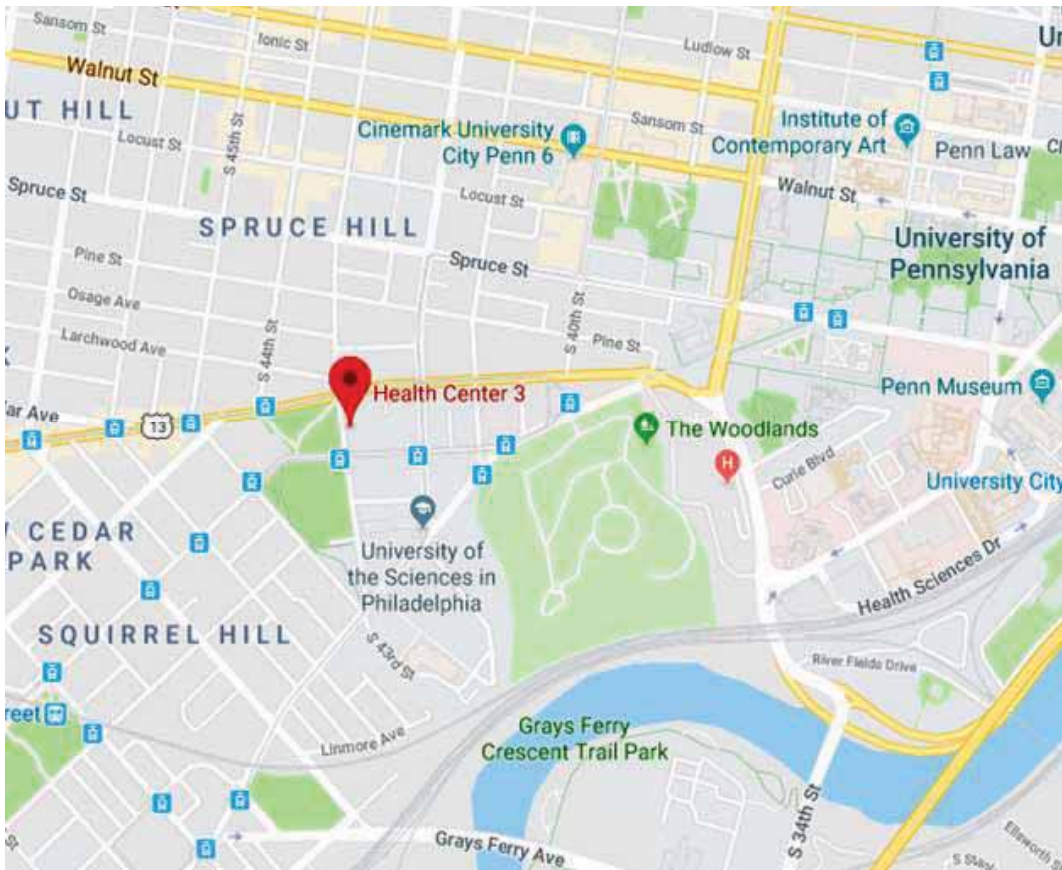
CAPITAL PROGRAM OFFICE DIRECTOR - APARNA PALANTINO

COMMISSIONER OF PUBLIC HEALTH - DR. PALAK RAVAL-NELSON, PhD., MPH

HEALTH CARE CENTER No. 3 – PHASE 2 PHIPPS RENOVATION AND ADDITION PROJ.
4217 - 21 CHESTER AVENUE, PHILADELPHIA, PENNSYLVANIA 19104
No. 14-23-4990-01

Architect - AK Architecture, LLC
2011 Walnut Street, 2nd Floor
Philadelphia, PA 19103
215-977-8516

Site Map of Health Center 3



Aerial Photo of Health Center 3



Sheet List:

- 1 – Cover Sheet
- 2 – Photos Chester Ave
- 3 – Photos 43rd Street
- 4 – Photos Building Rear
- 5 - L1.0 Site Plan
- 6 - Plant & Tree Palette
- 7 - L2.0 Planting Plan
- 8 - Ground Floor Plan & East Bldg. Section/Elev.
- 9 - 2nd Floor Plan & West Bldg. Section/Elevation
- 10 Lower Level Floor Plan, Chester Ave & North Elev
- 11 - Canopy Entrance
- 12 - Elevator Addition
- 13 - A1.1 Floor Plans with Additions Highlighted
- 14 -16 - Chester Avenue Rendered Perspective Views

CITY OF PHILADELPHIA

CAPITAL PROGRAM OFFICE

CAPITAL PROJECTS DIVISION – HEALTH & HUMAN SERVICES
CITY HALL ROOM 702 – 1400 JOHN F. KENNEDY BLVD
PHILADELPHIA PENNSYLVANIA 19107

Philadelphia Art Commission

Submission for Approval

July 9, 2025

Cover Sheet

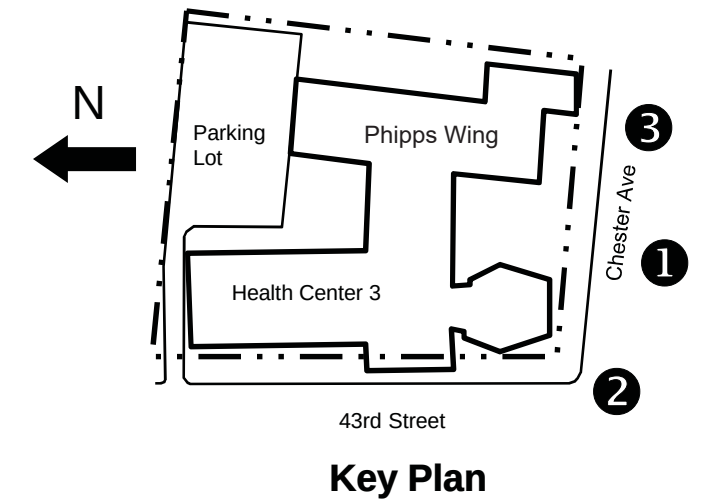
1 of 16



2) Southwest View from Chester Avenue



3) South View of Phipps Wing and Entrance from Chester Avenue



1) Chester Avenue Elevation, south side of building with Vacant Phipps Wing and Entrance Canopy on uphill East Side (Right Side of Photo)



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CAPITAL PROGRAM OFFICE
CITY HALL ROOM 702 – 1400 JOHN F. KENNEDY BLVD
PHILADELPHIA PENNSYLVANIA 19107

PHASE 2 Phipps Renovation
Health Care Center No. 3
Department of Public Health
4217-21 Chester Ave, Phila., PA 19104

Philadelphia Art Commission
Submission for Approval
July 9, 2025
-
Project No. 14-23-4990-01

Chester Avenue
Elevations

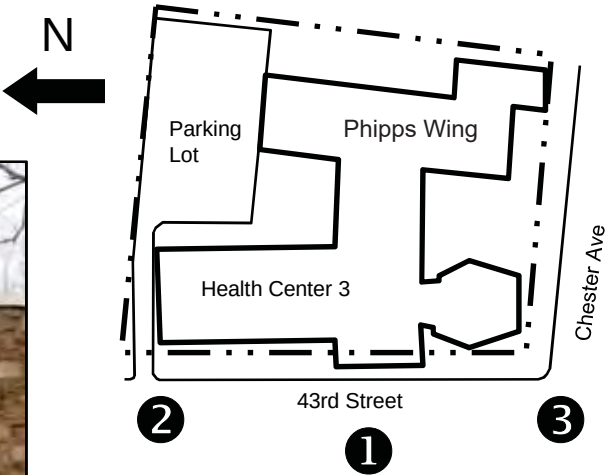
2 of 16



2) Northwest View from 43rd Street



3) Northeast View from 43rd Street



Key Plan



1) Health Care Center No. 3 Front Elevation with Entrance Facing Clark Park across 43rd Street



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CAPITAL PROGRAM OFFICE
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43rd Street
Elevations

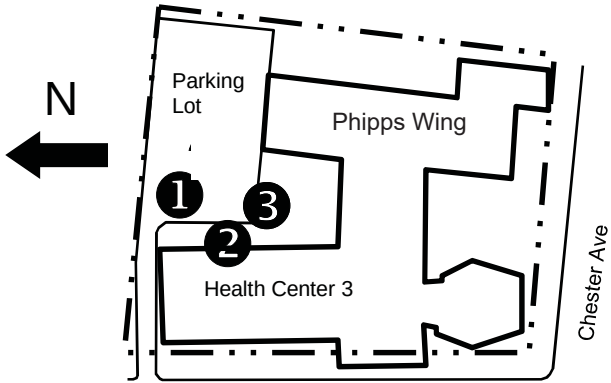


3) Northeast View from Parking Lot

Location of New Ribbon Windows



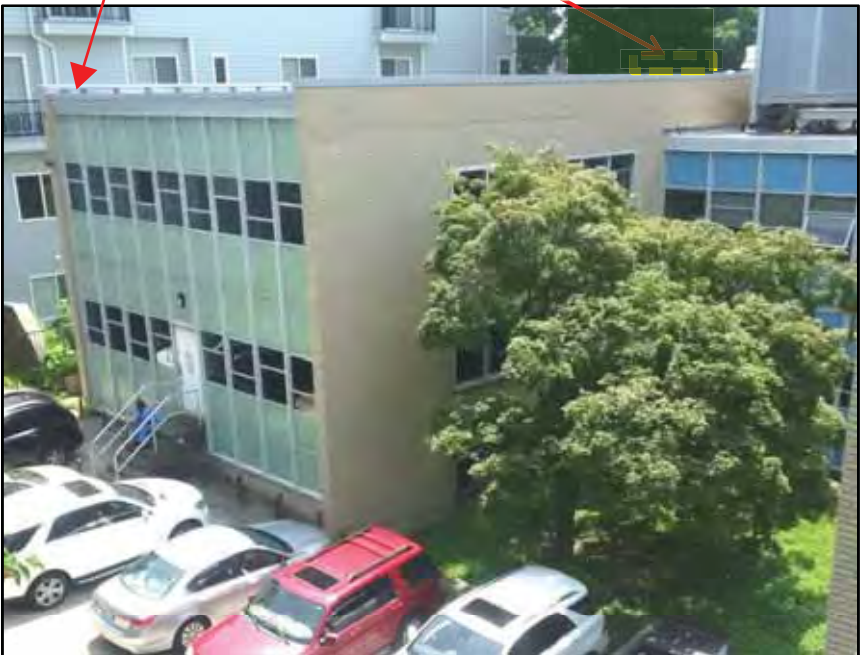
1) Northeast View from Parking Lot



43rd Street

Key Plan

Location of New Curtain Wall



2) Northeast View of Parking Lot



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Rear Elevations

4 of 16

REVISIONS		
ISSUE	DATE	REVISIONS



PROJECT COORDINATOR

SEALS



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2011 Walnut Street
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Ann Rothmann Structural Engineering 100 E. Lancaster Ave. Suite 203 Wayne, PA 19087	J+M Engineering 11 W Thompson St Philadelphia, PA 19125	Rodriguez Consulting 100 W Oxford St Philadelphia, PA 19122
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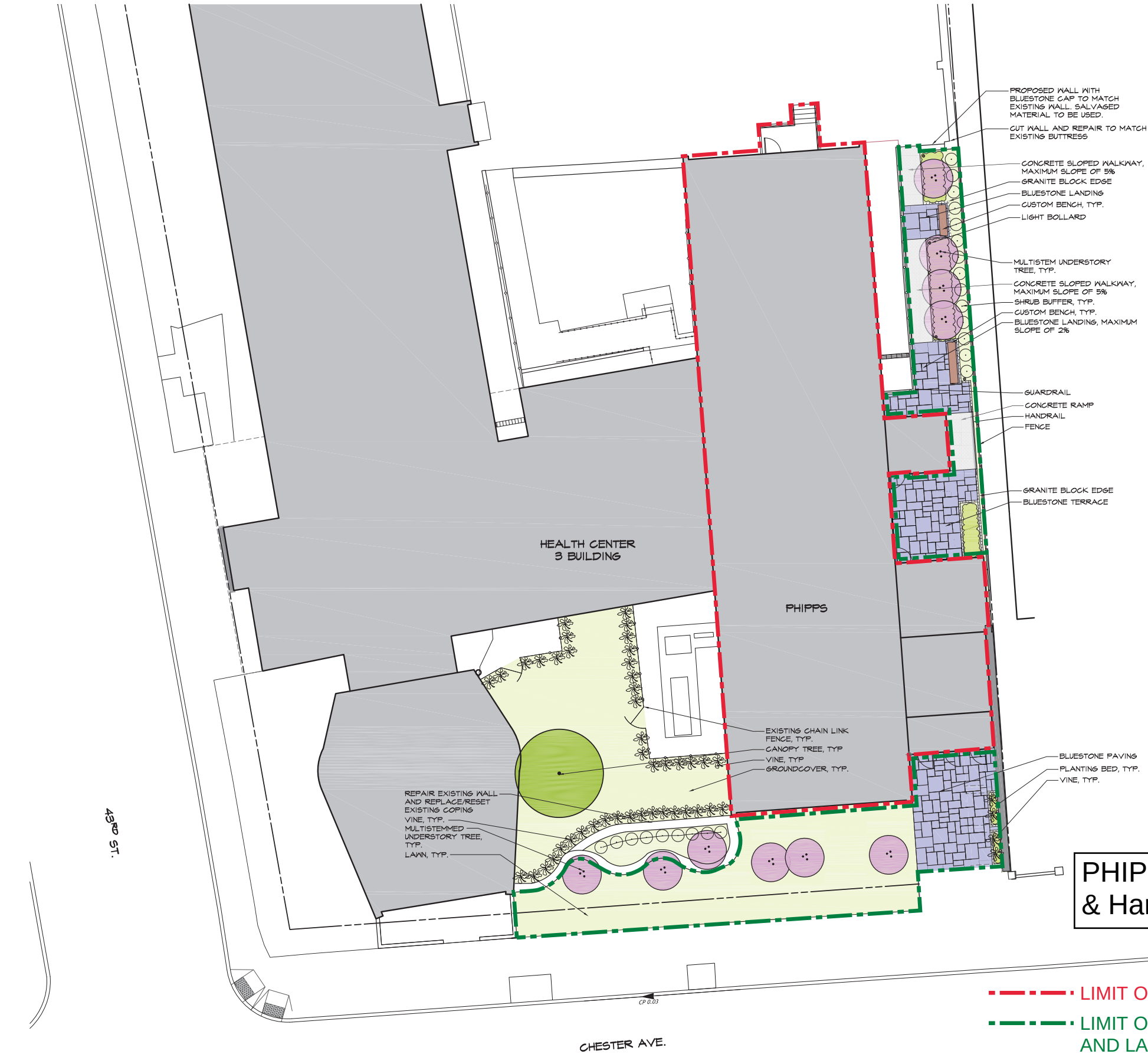
CITY OF PHILADELPHIA
CAPITAL PROGRAM OFFICE
1400 JFK BLVD
7TH FLOOR, CITY HALL
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
HEALTH CARE CENTERS
NO. 3
PHIPPS RENOVATION AND ADDITION

DRAWING TITLE
SITE IMPROVEMENTS PLAN

PROJECT NO. 14-14-4775-02	DRAWING NO. L1.0
DATE 12/20/2024	
SCALE	
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NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE OBSERVED BY THE CONTRACTOR THE SITE BEFORE PROCEEDING WITH THE WORK.



LEGEND

CONCRETE

BLUESTONE

LAWN

PERENNIAL PLANTING

GRANITE BLOCK EDGE

CUSTOM BENCH

LIGHT BOLLARD

CANOPY TREE

UNDERSTORY TREE

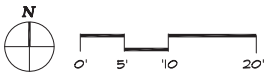
SHRUB

VINES

PHIPPS Renovation: Landscape & Hardscape Changes

- LIMIT OF BUILDING WORK

--- LIMIT OF HARDSCAPE AND LANDSCAPE WORK



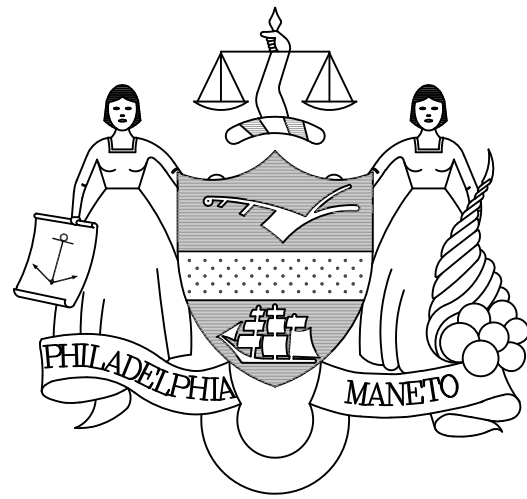
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CAPITAL PROGRAM OFFICE
1400 JFK BLVD
7TH FLOOR, CITY HALL
PHILADELPHIA, PENNSYLVANIA
PROJECT TITLE
HEALTH CARE CENTERS
NO. 3
PHIPPS RENOVATION AND ADDITION

DRAWING TITLE	
PLANTING PLAN	
PROJECT NO. 14-14-4775-02	DRAWING NO. L2.0
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Health Care Center 3 - Phipps Renovation & Addition

PLANT PALETTE



Cercis canadensis – Eastern Redbud



Gleditsia 'Skyline' – Honey Locust



Hydrangea petiolaris – Climbing Hydrangea



Lonicera sempervirens – Coral Honeysuckle



Magnolia virginiana – Sweetbay Magnolia



Liriope muscari – Lily Turf



Athyrium felix-femina – Lady Fern



Tiarella cordifolia – Foamflower



Viburnum pragense – Prague Viburnum



Rhus aromatica 'Gro-Low' – Fragrant Sumac



Liriope spicata – Lily Turf



Polystichum acrostichoides – Christmas Fern



Helleborus 'Brandywine' – Lenten Rose



2 EXPANSION JOINT
L3.0 N.T.S

[illegible]

PROJECT COORDINATOR

SEALS



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CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY

1400 JFK BLVD
7TH FLOOR, CITY HALL
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
HEALTH CARE CENTERS
NO. 3
PHIPPS RENOVATION AND ADDITION

DRAWING TITLE

SITE DETAILS

PROJECT NO.	14-14-1775-00
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DATE 12/20/2024

SCALE

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1200

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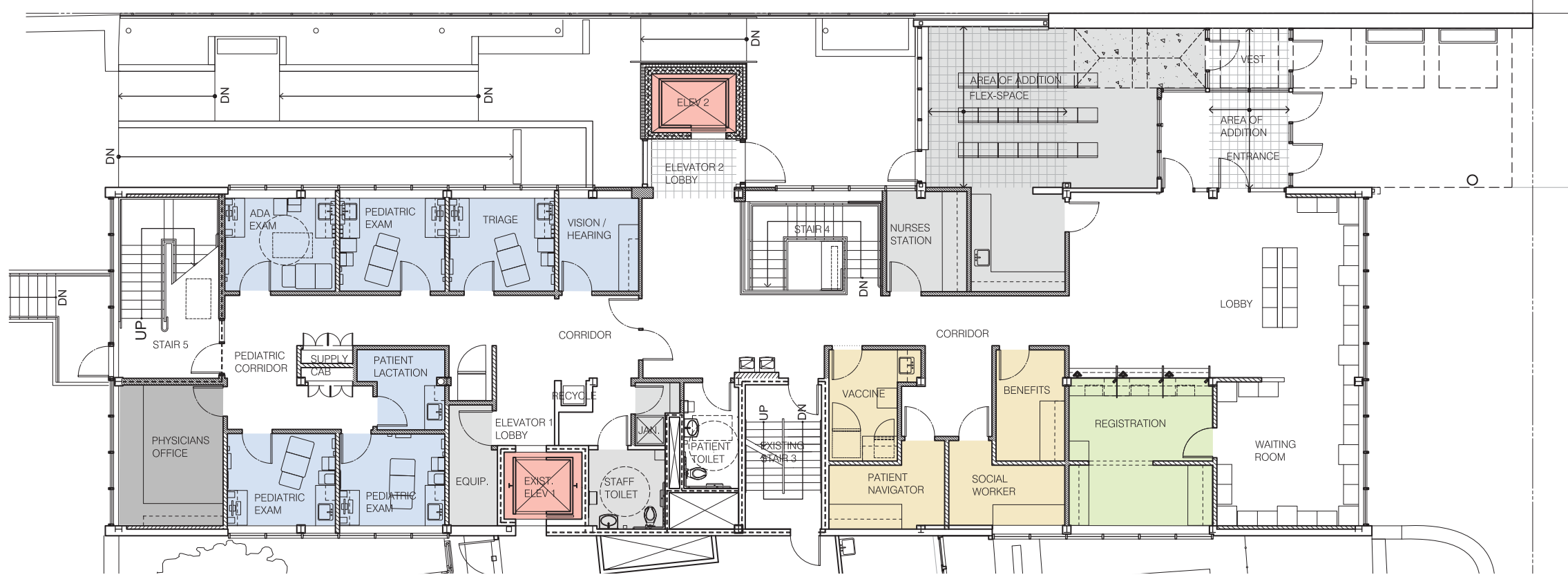


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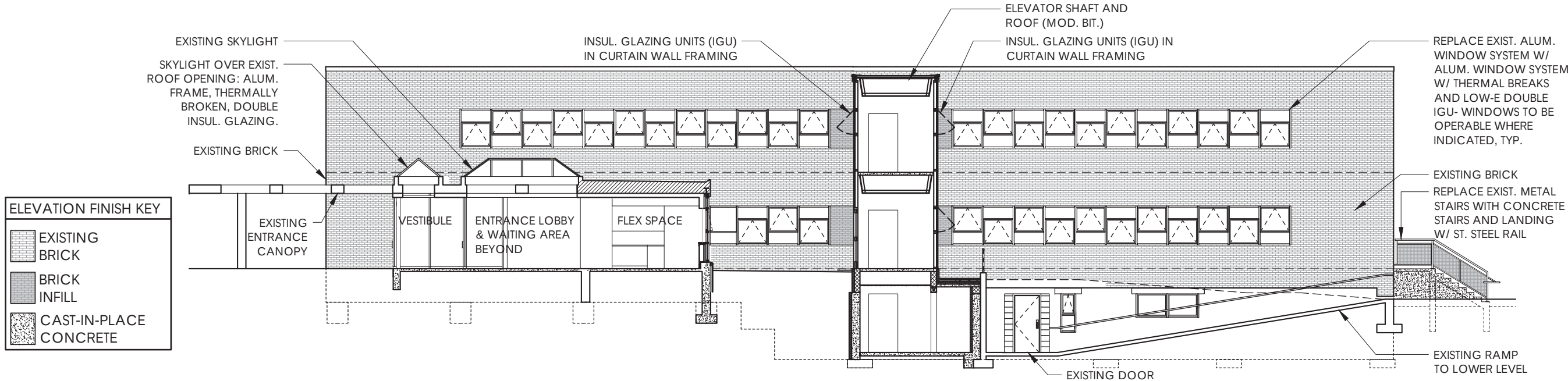
PHIPPS Exterior Changes: Building Renovation

E EAST SECTION/
ELEVATION

- KEY
- PEDIATRIC EXAM
 - SPECIALTY OFFICE
 - STAFF AREA
 - STAFF OFFICE
 - ELEVATOR
 - AREA OF NEW ADDITION
 - PHYSICAL THERAPY
 - NEW PARTITIONS



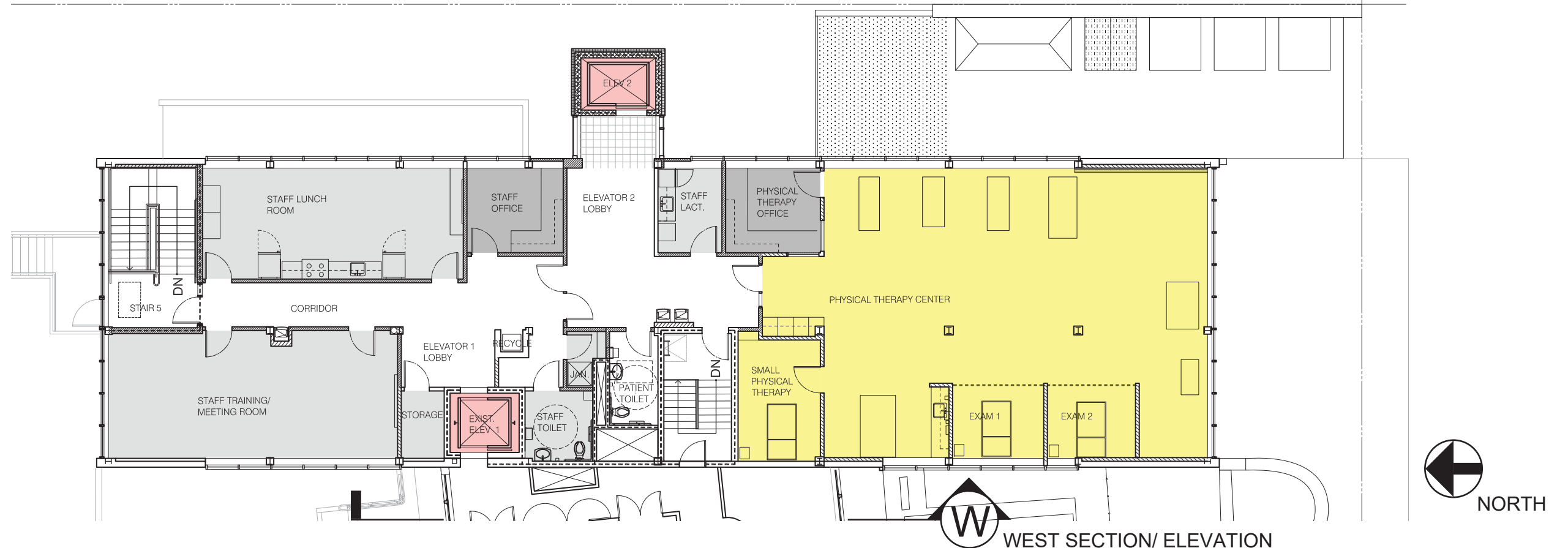
PHIPPS GROUND FLOOR PLAN



PHIPPS EAST BUILDING SECTION/ ELEVATION

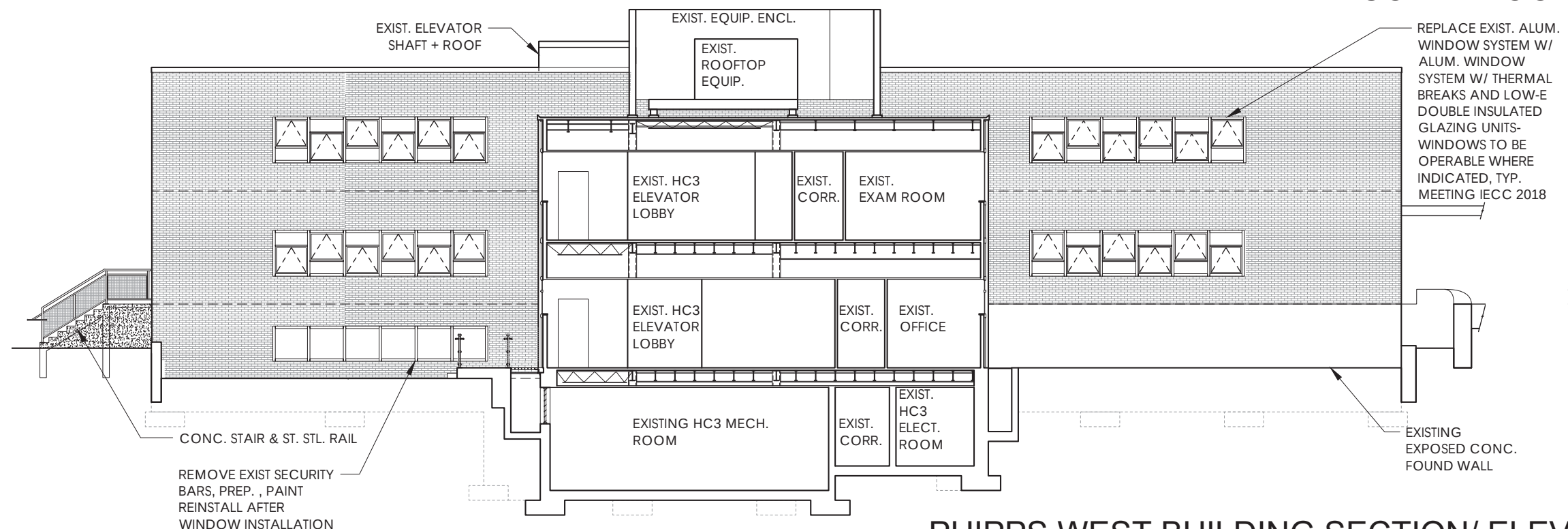
PHIPPS Exterior Changes: Building Renovation

- KEY
- STAFF AREA
 - STAFF OFFICE
 - ELEVATOR
 - AREA OF NEW ADDITION
 - PHYSICAL THERAPY
 - NEW PARTITIONS



WEST SECTION/ ELEVATION
PHIPPS SECOND FLOOR PLAN

- ELEVATION FINISH KEY
- EXISTING BRICK
 - CAST-IN-PLACE CONCRETE

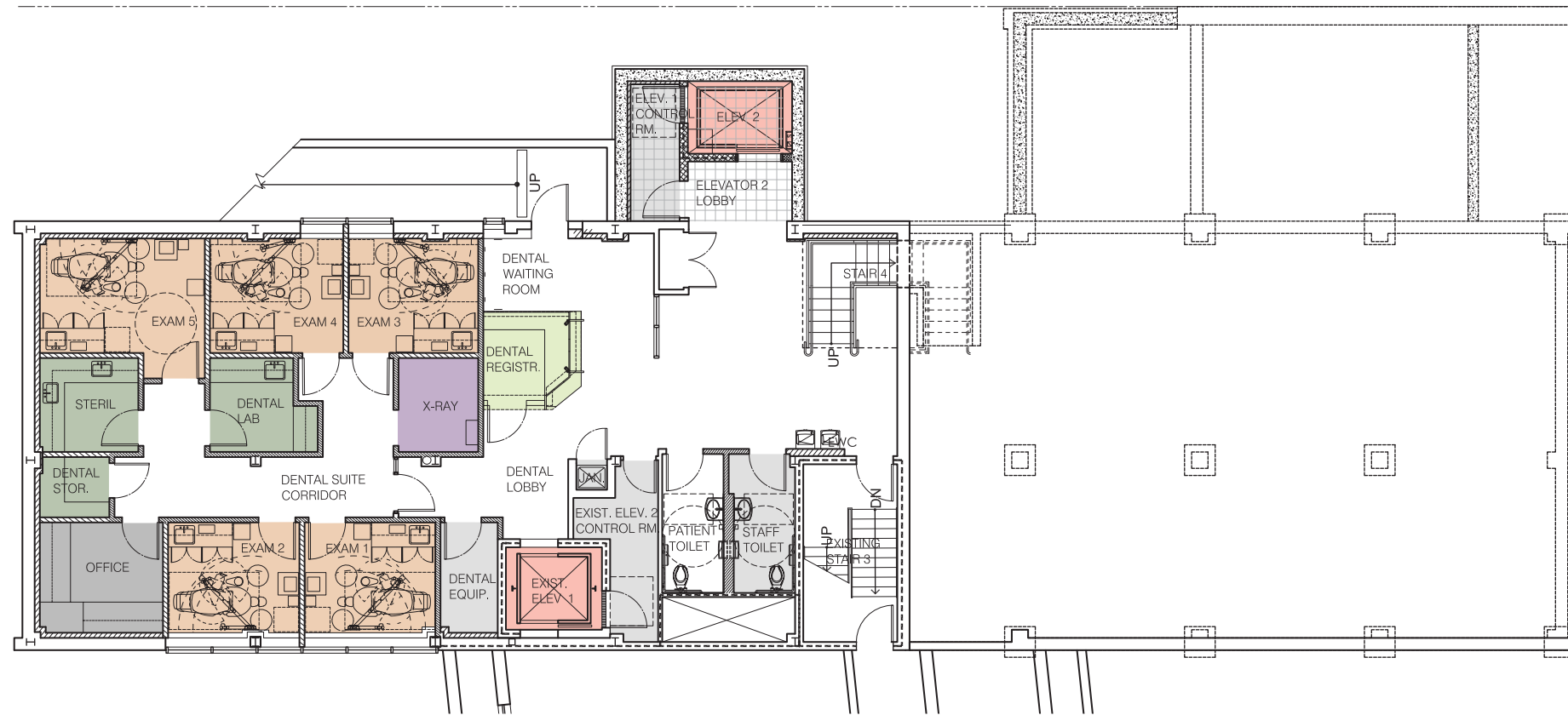


PHIPPS WEST BUILDING SECTION/ ELEVATION

- KEY
- STAFF AREA
 - STAFF OFFICE
 - REGISTRATION
 - DENTAL LAB + STERILIZATION
 - DENTAL EXAM
 - RADIOLOGY
 - ELEVATOR
 - AREA OF NEW ADDITION
 - NEW PARTITIONS

PHIPPS Exterior Changes: Building Renovation

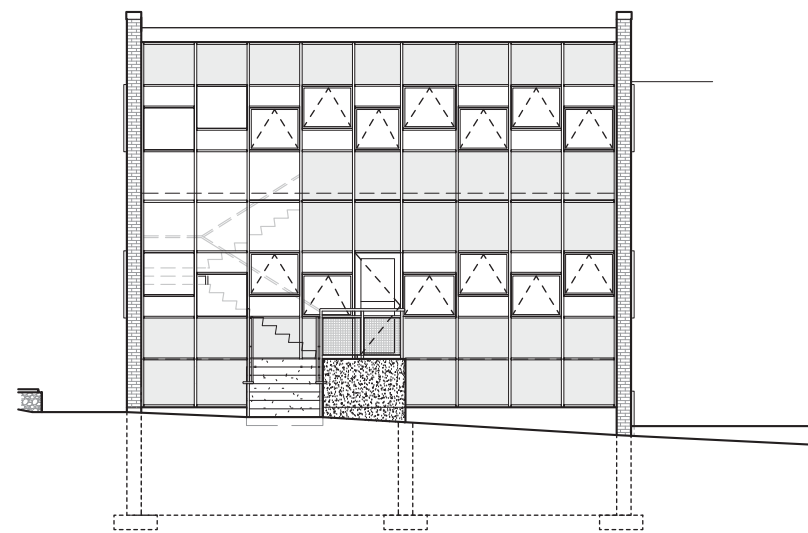
NORTH ELEVATION



SOUTH ELEVATION

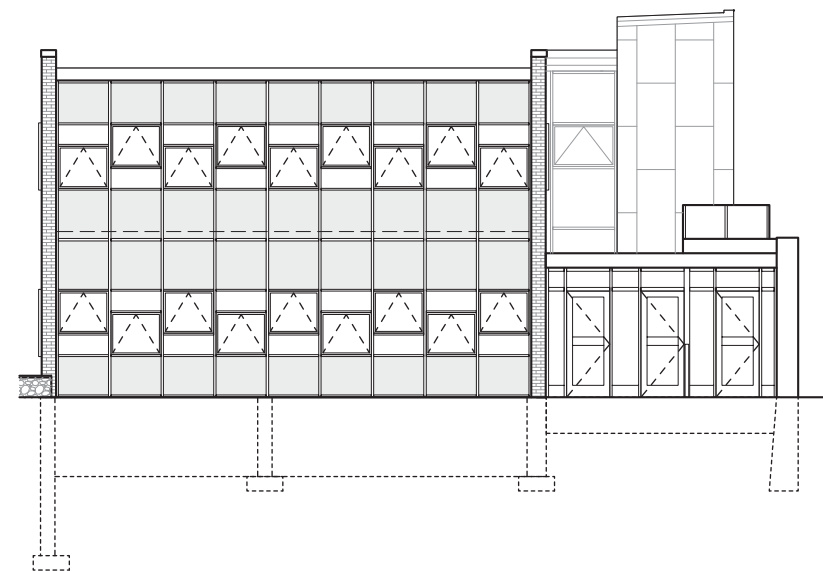
NORTH

PHIPPS LOWER LEVEL FLOOR PLAN

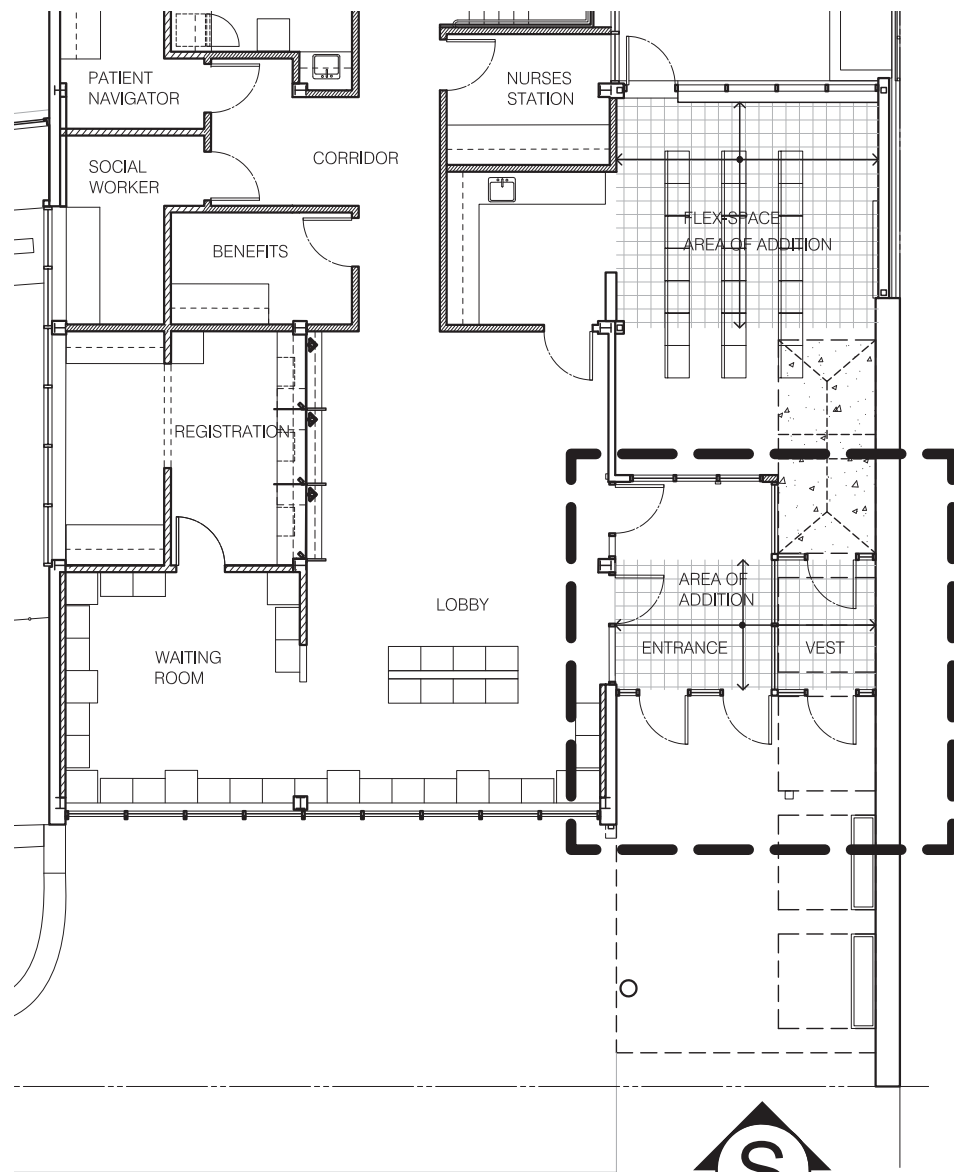


PHIPPS REAR (NORTH) ELEVATION

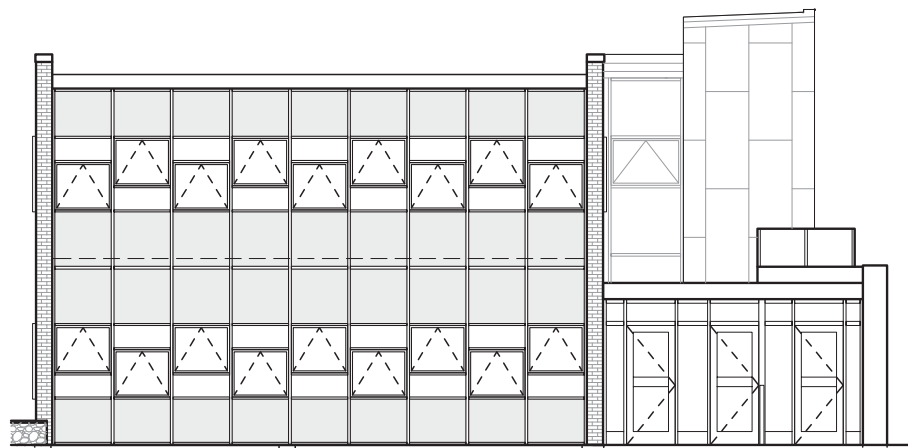
- ELEVATION FINISH KEY
- EXISTING BRICK
 - METAL PANEL
 - CAST-IN-PLACE CONCRETE



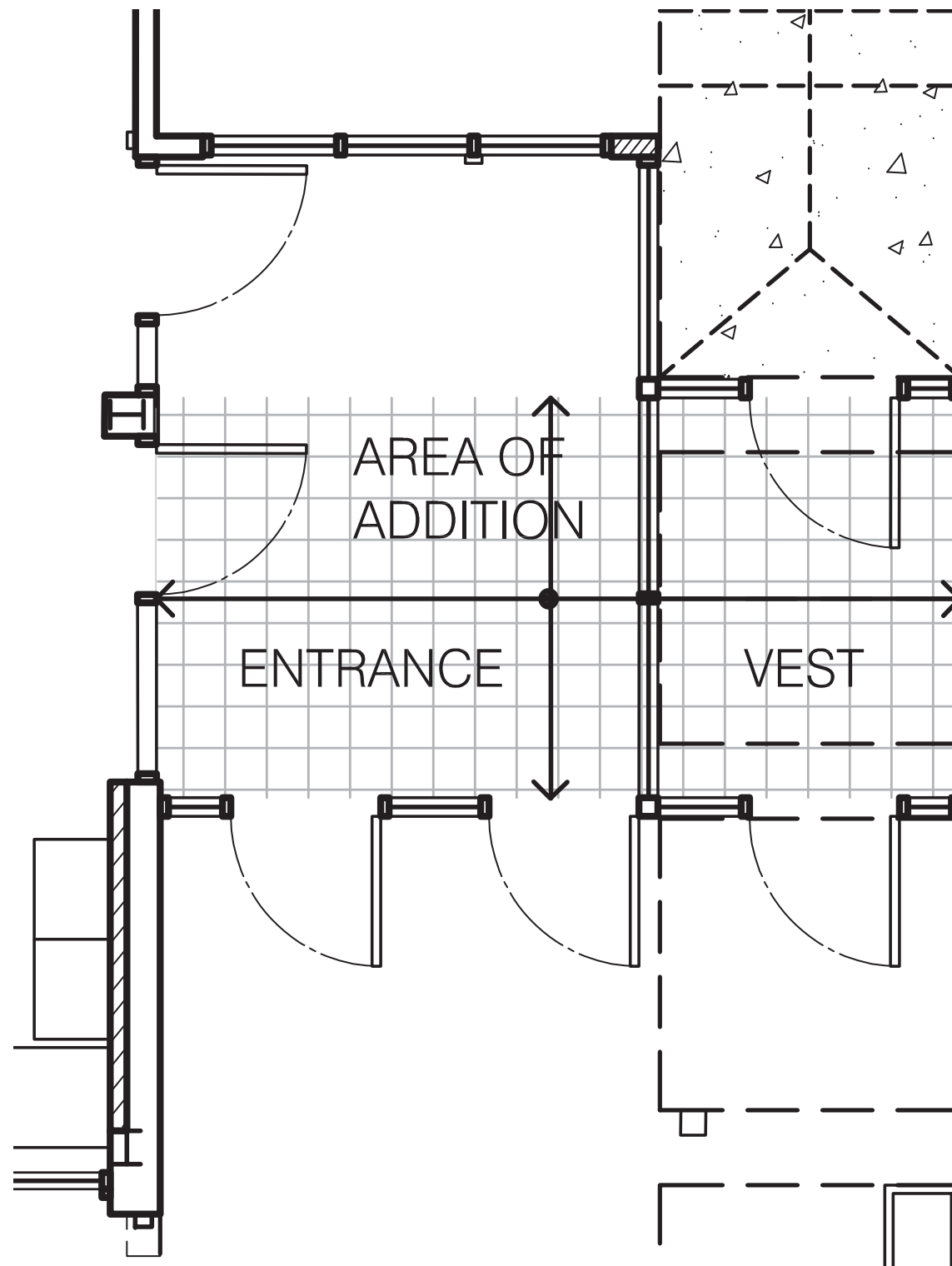
PHIPPS CHESTER AVE (SOUTH) ELEVATION



PHIPPS PARTIAL FLOOR PLAN - ENTRANCE
LOBBY, REGISTRATION, AND FLEX SPACE



PHIPPS CHESTER AVE ENTRANCE (SOUTH) ELEV.



PHIPPS ENLARGED PARTIAL PLAN - ENTRANCE

PHIPPS Exterior Changes:
Canopy Entrance

EXTERIOR FINISHES:
1) GLAZED ALUM.
CURTAIN WALL WITH
METAL PANELS

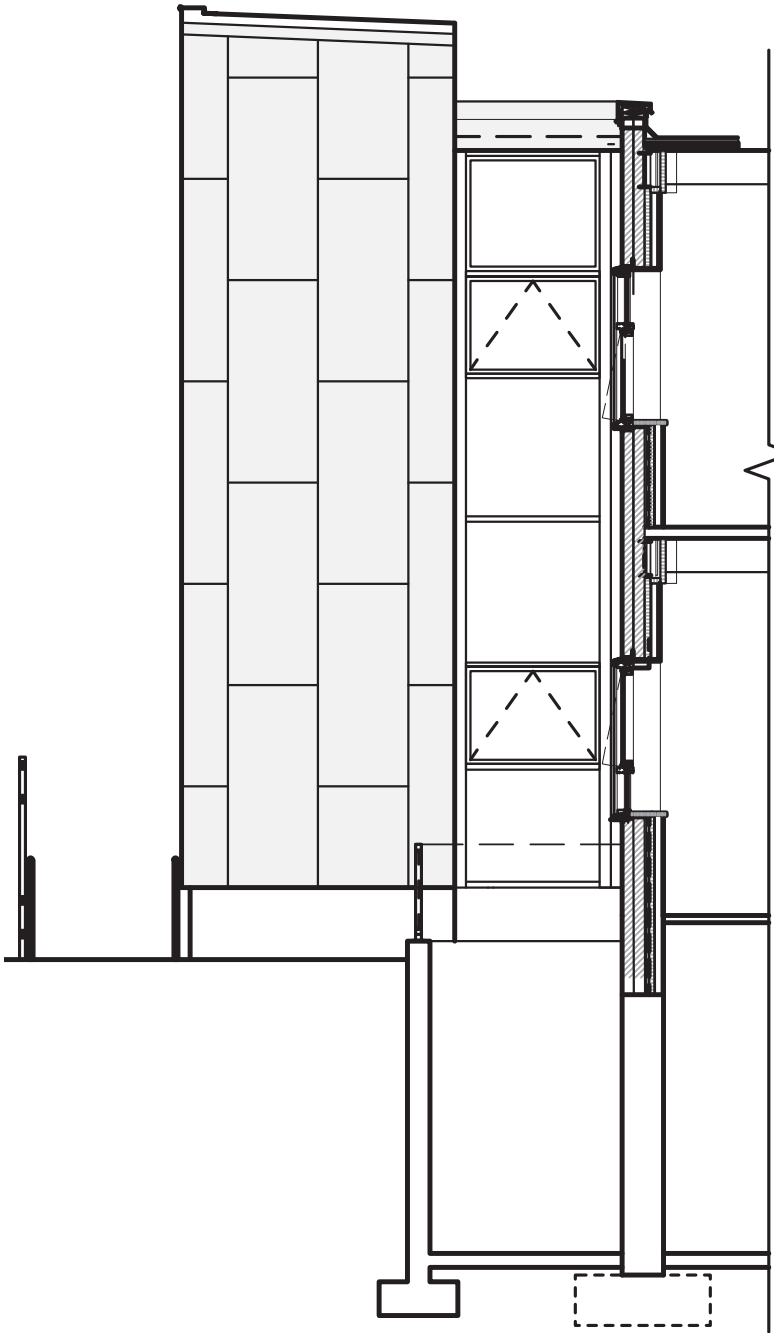
2) ALUM. STOREFRONT
ASSEMBLY MATCHING
CURTAIN WALL
APPEARANCE

3) METAL SOFFIT
PANELS ON EXISTING
ENTRANCE CANOPY

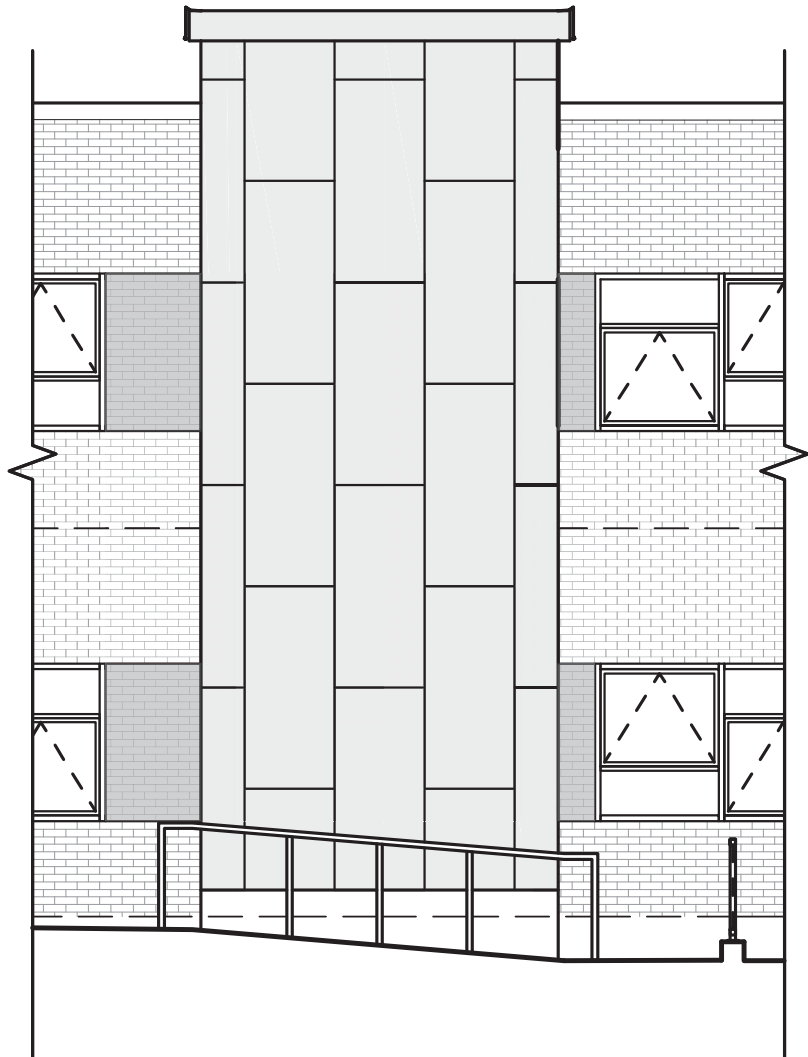


ELEVATION FINISH KEY	
	EXISTING BRICK
	BRICK INFILL
	METAL PANEL
	CAST-IN-PLACE CONCRETE

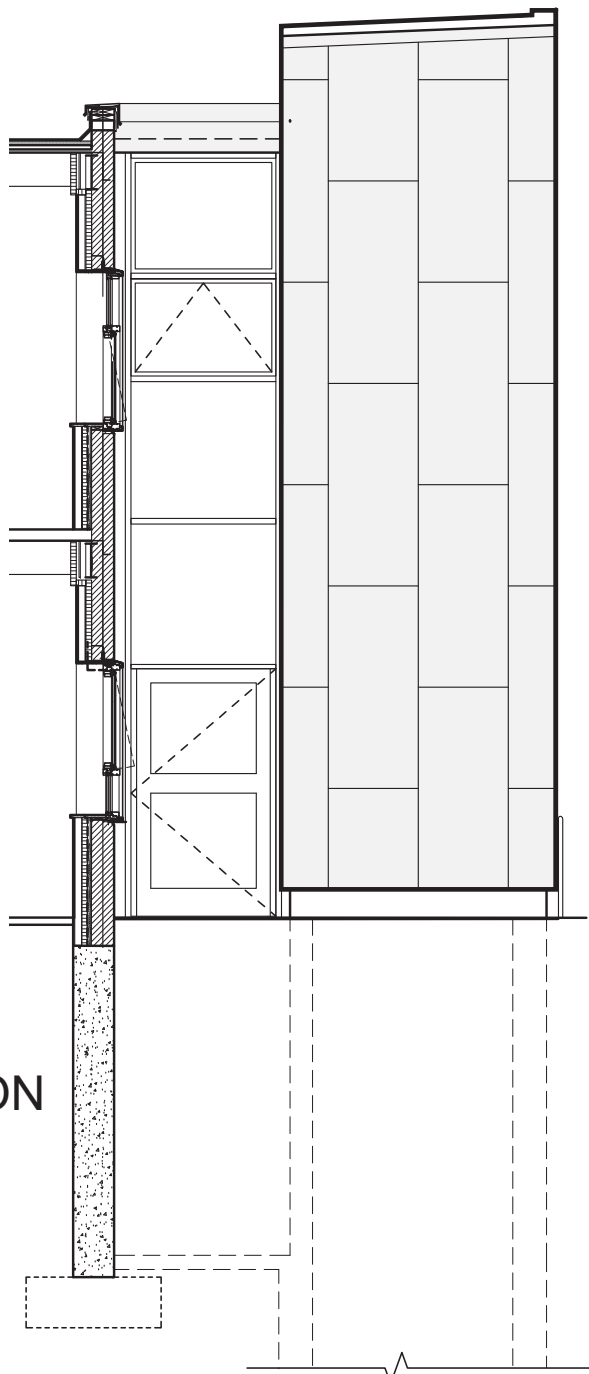
- EXTERIOR FINISHES:
- 1) GLAZED ALUM. CURTAIN WALL
 - 2) METAL PANELS- COLOR TO MATCH EXISTING GREEN PANELS



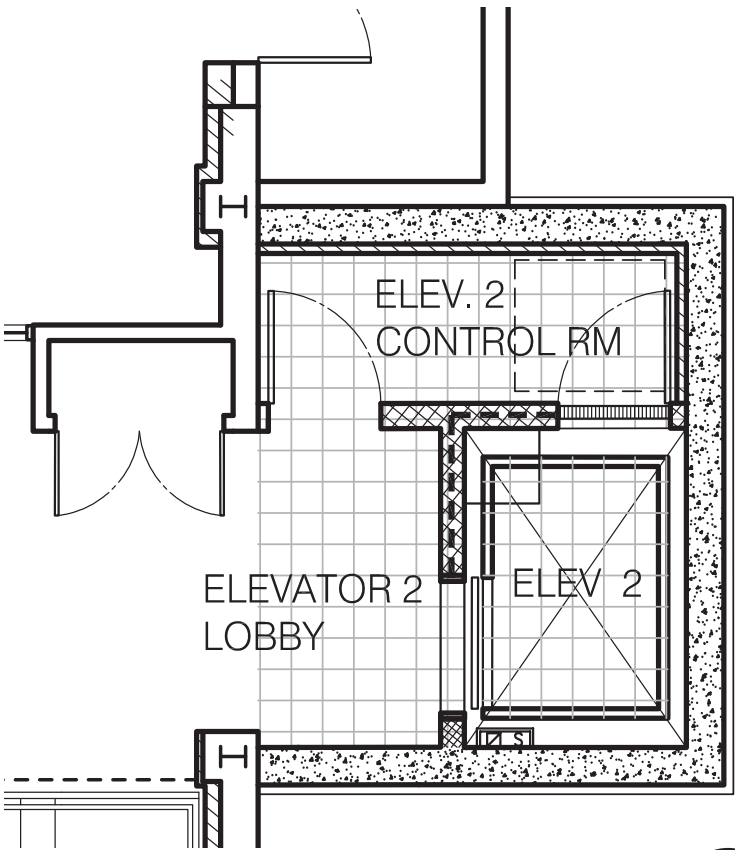
PHIPPS ELEVATOR NORTH ELEVATION



PHIPPS ELEVATOR EAST ELEVATION



PHIPPS ELEVATOR SOUTH ELEVATION



NORTH
PHIPPS LOWER LEVEL
ELEVATOR LOBBY PLAN



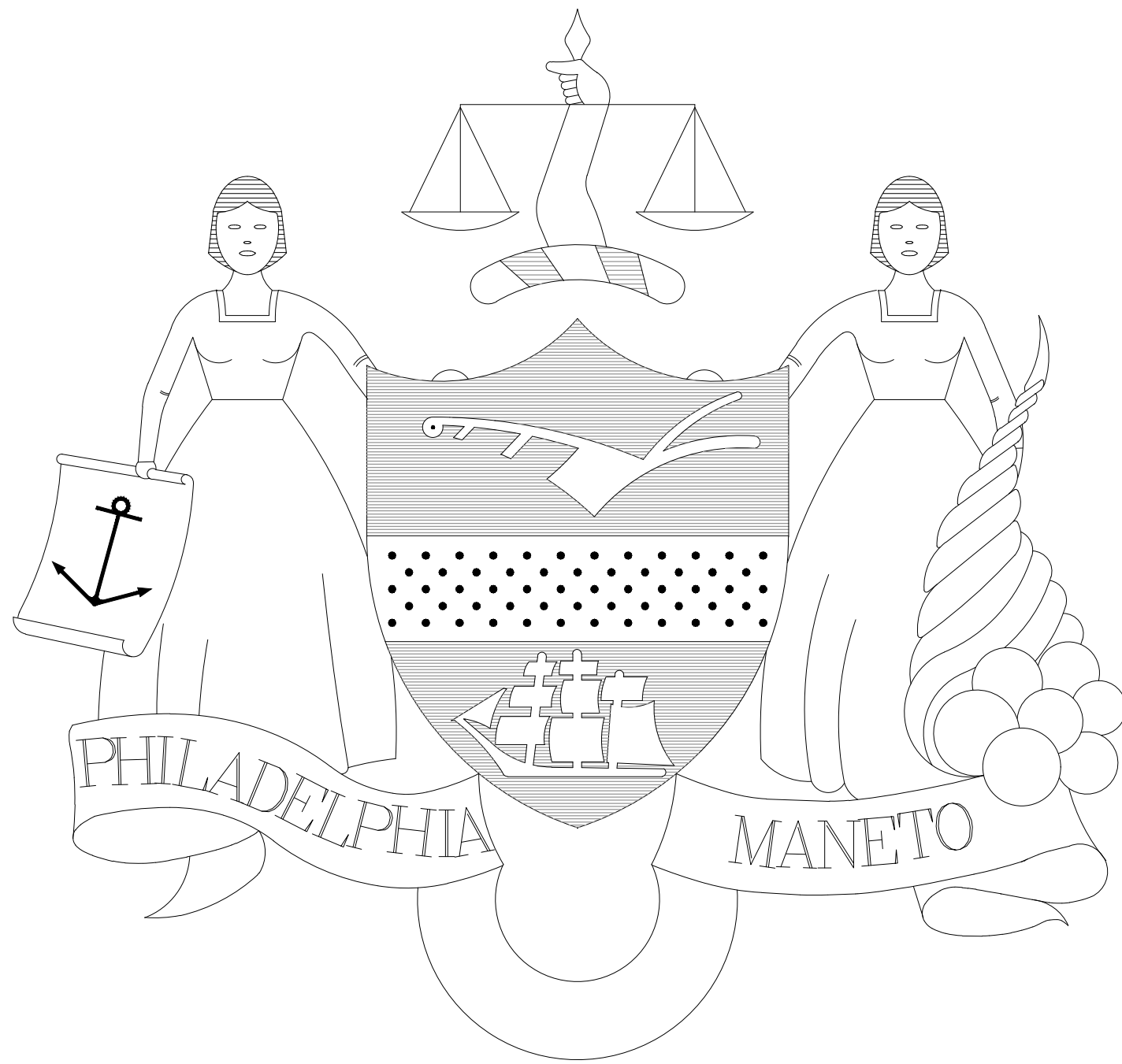
Health Care Center No. 3 - Phipps Renovation and Addition Project
4217-21 Chester Avenue, Philadelphia, PA 19104
A K Architecture, LLC



Health Care Center No. 3 - Phipps Renovation and Addition Project
View of Entrance approaching from Chester Avenue Looking Northeast
A K Architecture, LLC



Health Care Center No. 3 - Phipps Renovation and Addition Project
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A K Architecture, LLC



CITY OF PHILADELPHIA CAPITAL PROGRAM OFFICE

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COMMISSIONER OF PUBLIC HEALTH – DR. PALAK RAVAL – NELSON PH.D, M.P.H.

HEALTH CARE CENTER NO. 3 – PHASE 2 PHIPPS RENOVATION & ADDITION PROJ.
4217–21 CHESTER AVE, PHILA., PA 19104

PROJECT NO. 14 – 23 – 4990 – 01



5
CS.1
AERIAL PHOTO OF EXISTING PROPERTY
NO SCALE

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SUITE–3100
PHILADELPHIA, PA 19122

LANDSCAPE ARCHITECT

THINKGREEN, LLC
PO BOX 528
GLENSEIDE, PA 19038

LEED CONSULTANT

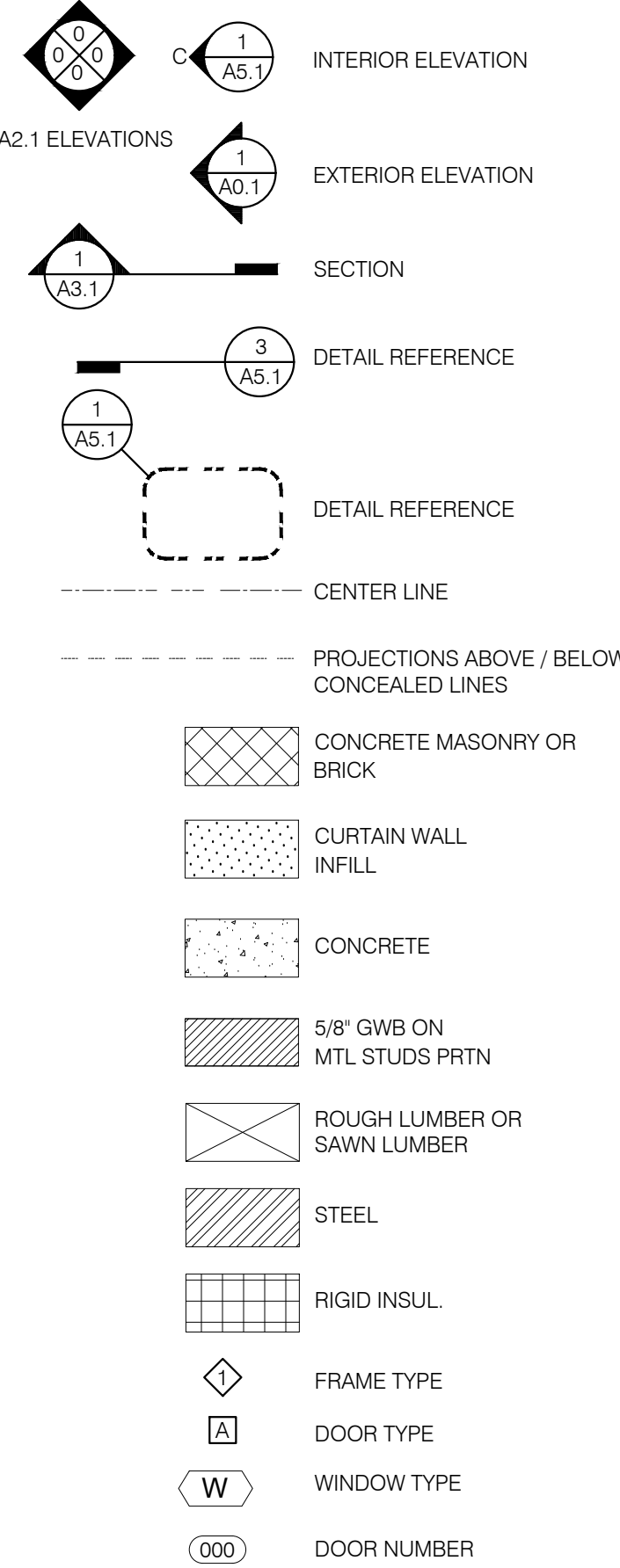
RE:VISION
133 GRAPE ST
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ABBREVIATIONS / SYMBOLS

AESS Architecturally Exposed Structural Steel
AFF Above Finish Floor
ALT Alternate
ALUM Aluminum
ALT Alternate
APPROX Approximate
BM Beam
BO Bottom of
BLKG Blocking
BLK Block
BOC Bottom of Concrete
BOS Bottom of Steel
CB Cove Base
CEM BD Cementitious Board
CJ Control Joint
CL Center Line
CL Closet
CLG Ceiling
CMU Concrete Masonry Unit
COL Column
CONC Concrete
CONT Continuous
CONTR Contractor
CORR Corridor
CRS Course
CURT Curtain
CW Curtain Wall
D Degree
DIA Diameter
DIM Dimension
DS Door Sill
DTL Detail
DWG Drawing
EJ Expansion Joint
EL Electrical
ELEV Elevation
ENT Entrance
EXIST Existing
EXP Exposed
EWC Electric Water Cooler
FEC Fire Extinguisher Cabinet
FHMS Flat Head Machine Screw

FIN Finished
FLOUR Fluorescent
FLR Floor
FR Fire Rated
FUT Future
GA Gauge
GALV. Galvanized
GC General Contractor
GL Glass
GLZ Glazing
GWB Gypsum Wall Board
GYM Gymnasium
HC3 Health Center 3
HM Hollow Metal
HORIZ Horizontal
ID Inside diameter
INT Interior
INSUL Insulation
JAN Janitor
JT Joint
LOC Location
MASY Masonry
MFR Manufacturer
MECH Mechanical
MH Manhole
MIN Minimum
MO Masonry Opening
MR Moisture Resistant
MTL Metal
NIC Not In Contract
NOM Nominal
NTS Not To Scale
OC On Center
OD Outside Dimension
OPP Opposite
PERIM Perimeter
PLUMB Plumbing
PLAM Plastic Laminate
PRE-FAB Prefabricated
PRTN Partition
PT Pressure Treated
PNT Painted
PLYWD Plywood

RD Roof Drain
REF Refrigerator
REINF Reinforced
RES Resilient
REQD Required
RHMS Round Head Machine Screw
RO Rough Opening
RWC Rain Water Conductor
SCH Schedule
SECT Section
SHT Sheet
SIM Similar
SOP Size of Pair
SPR Solid Polyester/ Acrylic Resin
SUSP Suspended
STO Storage
STL Steel
ST STL Stainless Steel
STRUCT Structural
SYS System
T & G Tongue and Groove
TEMP Temporary
THLD Threshold
THRD Threaded
THRU Through
TOC Top of Concrete
TO Top of
TRZ Terrazzo
TW Top of Wall
TYP Typical
UNFIN Unfinished
UNO Unless Noted Otherwise
V Valve
VIF Verify In Field
VERT Vertical
VWB Vented Vinyl Wall Base
W Water
W/ With
WD Wood
WR Waterproof



DRAWING LIST

CS.1 - COVER SHEET
V101 - EXISTING CONDITIONS PLAN
V102 - SITE DEMOLITION PLAN
C101 - SITE PLAN
C110 - GRADING PLAN
C120 - UTILITY PLAN
C130 - EROSION AND SEDIMENT CONTROL PLAN
CS01 - SITE IMPROVEMENTS DETAILS
CS10 - SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

L1.0 - SITE IMPROVEMENTS PLAN
L1.1 - MATERIAL PLAN
L1.2 - LAYOUT PLAN
L1.3 - LAYOUT PLAN ENLARGEMENTS
L2.0 - PLANTING PLAN
L2.1 - PLANTING DETAILS
L3.0 - SITE DETAILS

A0.0 - SITE AND ROOF PLAN WITH CONTRACTOR ACCESS
A0.1 - EXISTING AND NEW EGRESS PLANS + CODE SUMMARY
R1.1 - EXISTING FLOOR PLANS WITH REMOVAL
A1.1 - FLOOR PLANS
A2.1 - EXTERIOR ELEVATIONS + BUILDING SECTION/ELEVATION
A3.1 - ELEVATOR SECTIONS AND DETAILS
A4.1 - REFLECTED CEILING PLANS
A5.1 - WALL SECTIONS
A5.2 - TYPICAL DETAILS (NOT INCLUDED)

A6.1 - CURTAIN WALL DETAILS
A7.1 - ENLARGED PLANS AND SECTIONS: STAIRS
A7.2 - ENLARGED PLANS AND INT, ELEVATIONS: REG. + TYP EXAM
A7.3 - ENLARGED PLANS AND INT, ELEVATIONS: DENTAL
A7.4 - ENLARGED PLANS AND INT, ELEVATIONS: TYP. TOILET ROOMS

S0.1 - GENERAL NOTES AND DETAILS
S1.1 - FOUNDATION PLAN AND FIRST FLOOR STRUCTURAL PLAN
S1.2 - SECOND FLOOR FRAMING PLAN AND ROOF FRAMING PLAN
S2.1 - TYPICAL DETAILS
S2.2 - FOUNDATION DETAILS
S2.3 - FRAMING DETAILS (NOT INCLUDED)

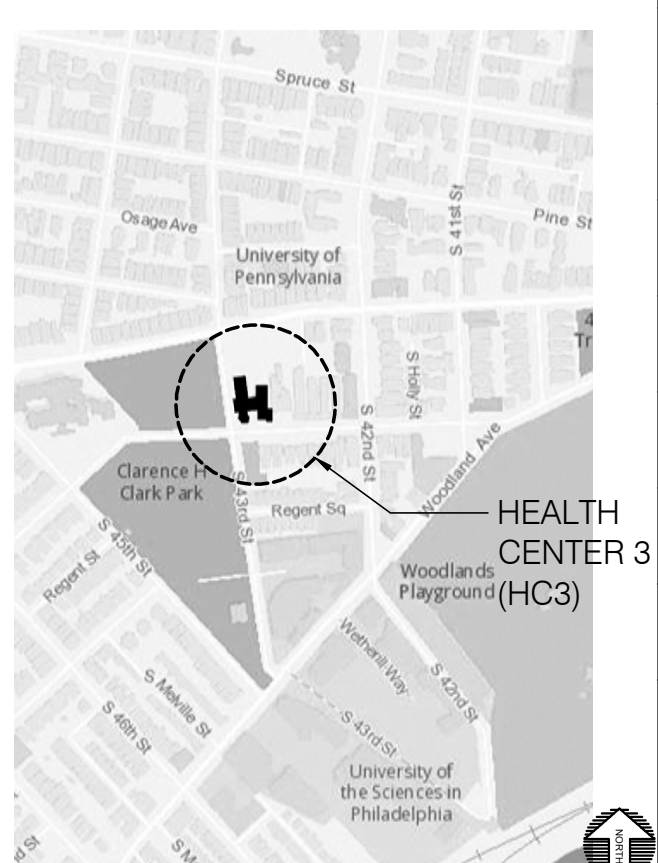
E001 - ELECTRICAL COVER SHEET
E200 - ELECTRICAL BASEMENT AND FLOOR 1 DEMO PLANS
E201 - ELECTRICAL FLOOR 2 AND ROOF DEMO PLANS
E300 - ELECTRICAL BASEMENT AND FLOOR 1 LIGHTING PLANS
E301 - ELECTRICAL FLOOR 2 AND ROOF LIGHTING PLANS
E400 - ELECTRICAL BASEMENT AND FLOOR 1 POWER PLANS
E401 - ELECTRICAL FLOOR 2 AND ROOF POWER PLANS
E402 - ELECTRICAL SECOND FLOOR POWER AND SYSTEMS PLANS
E403 - ELECTRICAL ROOF POWER AND SYSTEMS PLANS
E600 - ELECTRICAL SINGLE-LINE RISER DIAGRAM
E700 - ELECTRICAL PANEL SCHEDULES
E701 - ELECTRICAL SCHEDULES
E800 - ELECTRIC DETAILS

FP001 - FIRE PROTECTION COVER SHEET
FP300 - FIRE PROTECTION LOWER LEVEL AND GROUND FLOOR PLANS
FP301 - FIRE PROTECTION GROUND AND SECOND FLOOR PLAN

H001 - HVAC COVER SHEET
H200 - HVAC BASEMENT AND FLOOR 1 DEMO PLANS
H201 - HVAC FLOOR 2 AND ROOF DEMO PLANS
H300 - HVAC LOWER AND GROUND FLOOR PLANS
H301 - HVAC SECOND FLOOR AND ROOF PLANS
H700 - HVAC SCHEDULES

P001 - PLUMBING COVER SHEET
P200 - PLUMBING BASEMENT AND FLOOR 1 DEMO PLANS
P201 - PLUMBING FLOOR 2 AND ROOF DEMO PLANS
P300 - PLUMBING LOWER LEVEL AND NEW WORK PLAN
P301 - PLUMBING GROUND FLOOR NEW WORK PLAN
P302 - PLUMBING SECOND FLOOR NEW WORK PLAN
P304 - PLUMBING ROOF NEW WORK PLAN
P600 - PLUMBING RISERS
P700 - PLUMBING SCHEDULES
P800 - PLUMBING DETAILS

LOCATION PLAN



PROJECT APPROVED

COMMISSIONER/DEPARTMENT OF PUBLIC PROPERTY

DEPUTY COMMISSIONER/DEPARTMENT OF PUBLIC PROPERTY

PROJECT DIRECTOR/DPP-CAPITAL PROJECTS DIVISION

ART COMMISSION

HISTORICAL COMMISSION

SEALS

CITY OF PHILADELPHIA
CAPITAL PROGRAM OFFICE
1400 JFK BLVD
7TH FLOOR, CITY HALL
PHILADELPHIA PENNSYLVANIA

PROJECT NO.
14–14–4775–02

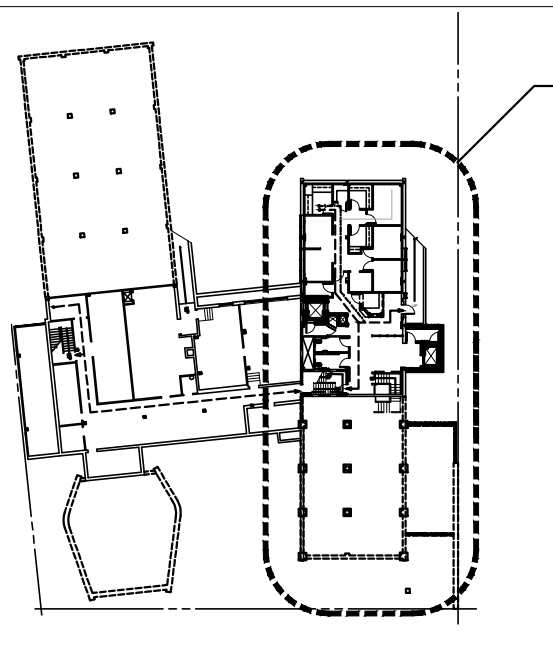
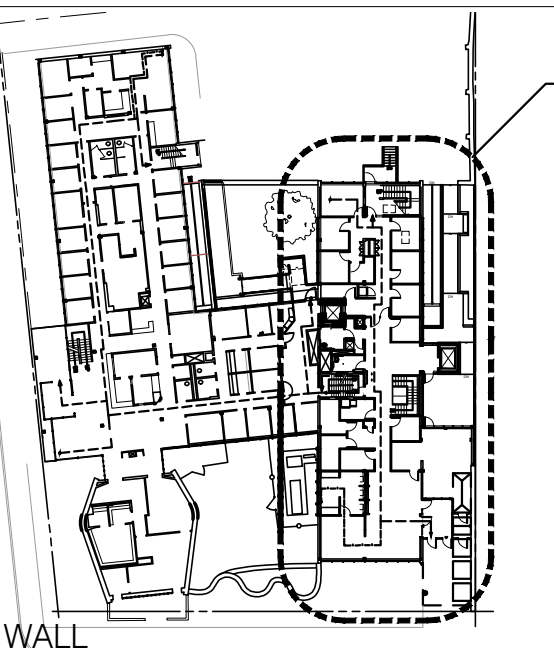
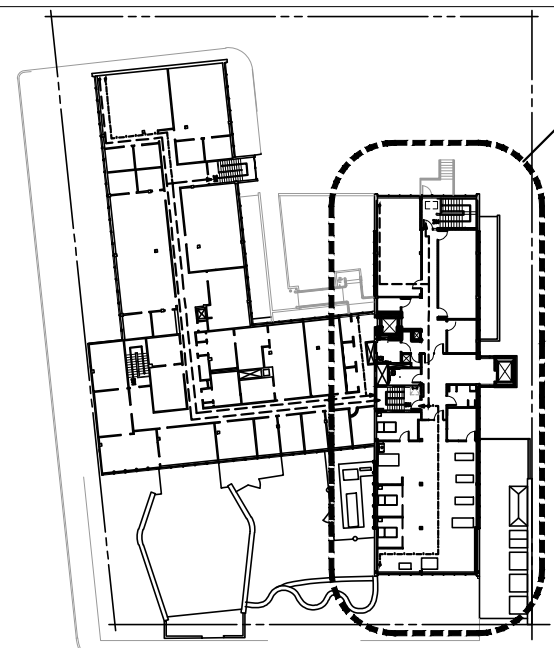
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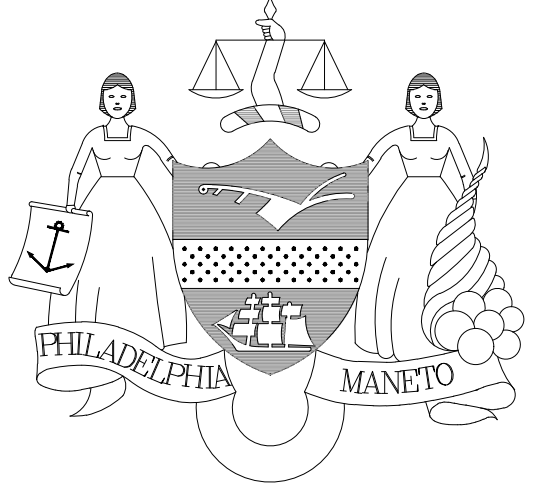
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HH, MD

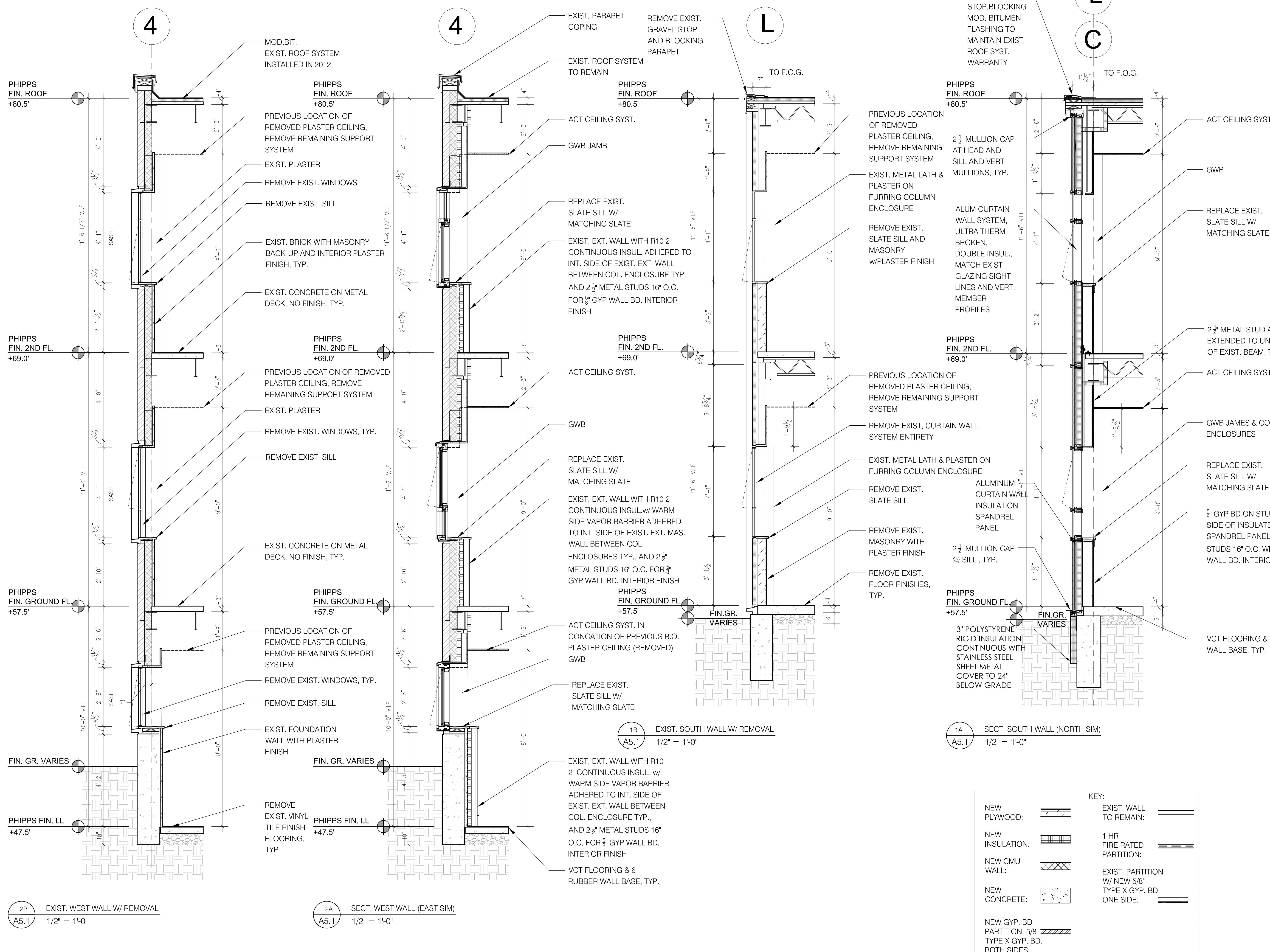
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NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE
VERIFIED BY CONTRACTOR AT THE SITE
BEFORE PROCEEDING WITH THE WORK.

CS.1



		
PROJECT COORDINATOR		
SEALS		
 Ann Rothmann Structural Engineering 100 E. Lancaster Ave. Suite 203 Wayne, PA 19087 A K Architecture, LLC 2011 Walnut Street 2nd Floor Philadelphia, PA 19103 J+M Engineering 11 W Thompson St Philadelphia, PA 19125		
Rodriguez Consulting 100 W Oxford St Suite E-3100 Philadelphia, PA 19122		
CITY OF PHILADELPHIA CAPITAL PROGRAM OFFICE 1400 JFK BLVD 7TH FLOOR, CITY HALL PHILADELPHIA PENNSYLVANIA		
PROJECT TITLE		
HEALTH CARE CENTERS NO. 3 PHIPPS RENOVATION AND ADDITION		
DRAWING TITLE		
EXISTING FLOOR PLANS WITH REMOVAL		
PROJECT NO. 14-14-4775-02	DRAWING NO. R1.1	
DATE 04/02/2025		
SCALE 		
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NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.		



REVISIONS		
ISSUE	DATE	REVISIONS



PROJECT COORDINATOR

SEALS



Ann Rothmann Structural Engineering 100 E. Lancaster Ave. Suite 203 Wayne, PA 19087	J+M Engineering 11 W Thompson St Philadelphia, PA 19125	Rodriguez Consulting 100 W Oxford St Suite E-3100 Philadelphia, PA 19122
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CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY
1400 JFK BLVD
7TH FLOOR, CITY HALL
PHILADELPHIA, PENNSYLVANIA

PROJECT TITLE
**HEALTH CARE CENTERS
NO. 3
PHIPPS RENOVATION AND ADDITION**

DRAWING TITLE
WALL SECTIONS

PROJECT NO.
14-14-4775-02

DATE
03/12/2025

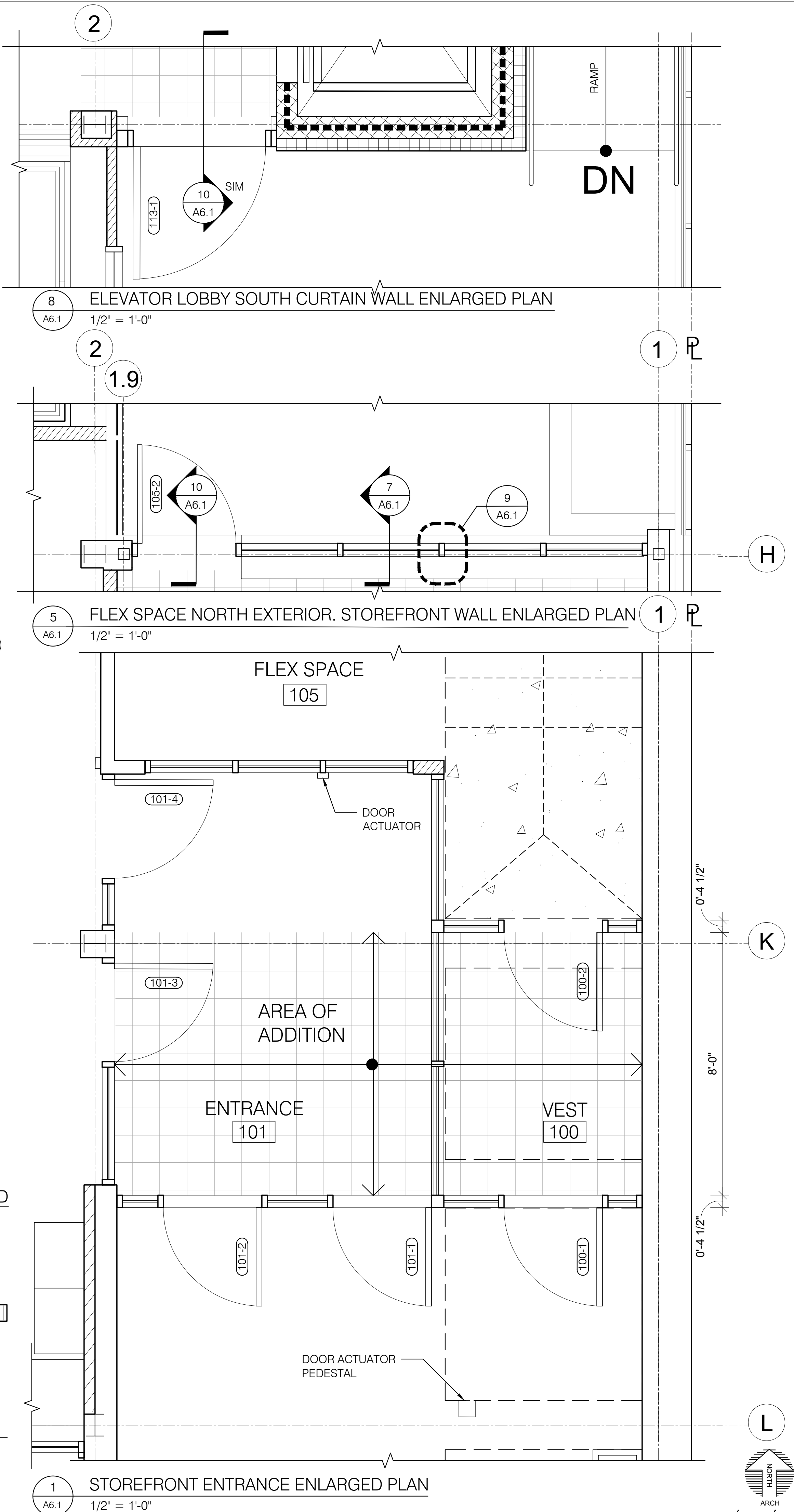
SCALE

DRAWN BY
HH, JC, MD

CHECKED BY
LA

FILE PATH/

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

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Project:

Location:

Fixture Type:

Catalog Number:

AVAILABLE FINISHES:



I Spy

FM-W44205

PRODUCT DESCRIPTION

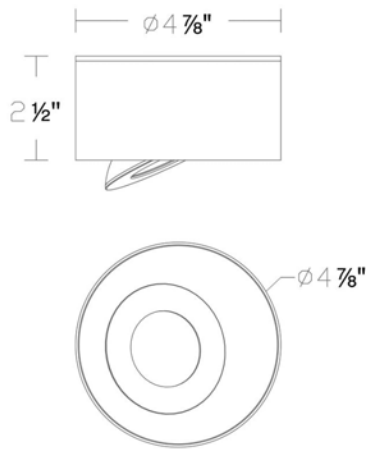
Versatile, adjustable, functional. This outdoor ceiling and wall luminaire delivers directional accent illumination with beam angles up to 40 degrees. Built-in adjustable colortemperature offers lighting at color temperatures of 3000K, 3500K and 4000K.

FEATURES

- Driver concealed within the fixture
- Rotatable multi-axis gimbal ring
- Built in color temperature adjustability. Switch from 3000K/3500K/4000K
- Option to pre-select color temperature or adjust in the field

SPECIFICATIONS

Rated Life	50,000 Hours
Standards	ETL, cETL,Wet Location Listed,IP65,Title 24 JA8: 2019 Compliant
Input	120-277 VAC,50/60Hz
Dimming	ELV: 100-5%,TRIAC: 100-5%
Mounting	Can be mounted on ceiling or wall in all orientations
Color Temp	4000K,3500K,3000K
CRI	90
Construction	Aluminum spun body with glass diffuser



FM-W44205

Model & Size	Color Temp	Finish	LED Watts	LED Lumens	Delivered Lumens
FM-W44205 5"	3000K	BK Black	9.1W	1185	759
	3000K	WT White	9.1W	1185	759
	3500K	BK Black	9.1W	1185	759
	3500K	WT White	9.1W	1185	759
	4000K	BK Black	9.1W	1185	759
	4000K	WT White	9.1W	1185	759

Example: **FM-W44205-40-WT**

For custom requests please contact customs@modernforms.com

FEATURES

- Integral Battery Backup Option
- 360° Light Distribution
- RGBW or Static White Luminous Front Option
- Multiple Fascia Options and Finishes
- 4G Vibration Tested



3000K and warmer CCTs only

CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- Main housing shroud is made of fabricated 5052-H32 aluminum alloy
- Housing mounting interface has a stamped silicone gasket
- Luminaire housing is free of any visible heat fins, hardware or fasteners
- Bracketry and hardware is stainless steel
- Luminaire finish consist of a five stage pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish
- Luminaire finish meets the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance

LED/OPTICS

- LEDs are mounted to a metal printed circuit board assembly (MCPCB) with a uniform conformal coating over the panel surface and electrical features
- Optical lenses is clear injection molded PMMA acrylic
- Optical array is recessed in order to shield each LED optic across the length of the aperture
- Optical array is sealed for IP66 rating
- Secondary lens is impact resistant 5/32" tempered glass

INSTALLATION

- JUNCTION BOX: Standard with zinc-plated, quick-mount junction box plate that mounts directly to 4" J-Box
- Mounting plate features a one-piece EPDM gasket on back side of plate to firmly seal fixture to wall surface, forbidding entry of moisture and particulates

INSTALLATION (CONTINUED)

- Fixture attaches by two Allen-head hidden fasteners for tamper resistance
- Optional mounting arrangements utilize a die-cast mounting adaptor to allow for surface conduit and through branch wiring
- Housing is able to hang freely in an open service position for inspection of internal wire connections. Once in service position, the housing shall be able to be removed for service by lifting the assembly up off the rear mounting plate and disconnecting the wiring plugs
- Driver assembly is mounted to a prewired internal tray with quick disconnects for removal

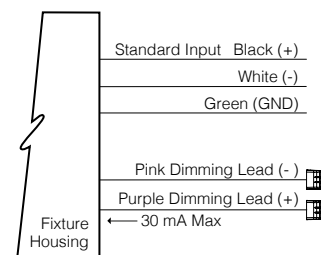
ELECTRICAL

- Drivers are in direct contact with the die-cast aluminum housing across the entire surface area of the widest face for maximum thermal transfer
- "Thermal Shield", primary side, thermistor provides protection for the sustainable life of LED module and electronic components
- Drivers have greater than a 0.9 power factor, less than 20% harmonic distortion, and be suitable for operation in -40°C to 40°C ambient environments
- Luminaires have integral surge protection that shall be U.L. recognized and have a surge current rating of 10,000 Amps using the industry standard 8/20uSec wave and surge rating of 372J. Surge protection device shall be wired in series
- Drivers are 0-10V dimming control with a dimming range of 100%-10%. Drivers are U.L. listed. All luminaires shall accept 120-277 volt input and have integral surge protection. "Thermal Shield", secondary side, thermistor provides protection for the sustainable life of LED module and electronic components

CYPHER™



Cypher 9"



ELECTRICAL (CONTINUED)

- Integral battery backup provides emergency path of egress lighting for the required 90 minutes for -20°C ambient environments
- Luminaire are capable of operating at 100% brightness in a 40°C environment. Both driver and optical array shall have integral thermal protection that will dim the luminaire upon detection of temperatures in excess of 85°C

CONTROLS

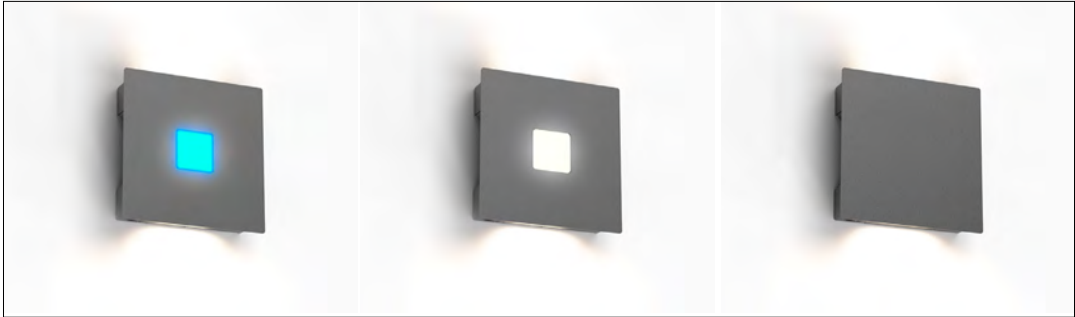
- Button photocontrol for dusk to dawn energy savings
- Photocell is factory installed inside the housing with a fully gasketed sensor on the side wall. For multiple fixture mountings, one fixture is supplied with a photocell to operate the others. Photocell adapter shall include an internal twist lock receptacle. Photocell by others

continued on page 3

KEY DATA	
LUMEN RANGE	1,353–2,752
WATTAGE RANGE	17–26
EFFICACY RANGE (LPW)	75–116
WEIGHT	Refer to page 6

FASCIA

FLAT



CURVE



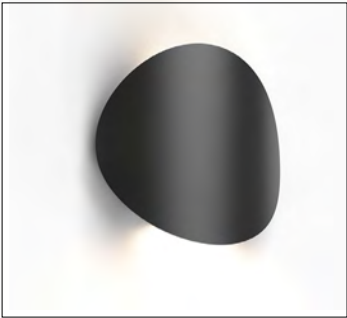
ROUNDED EDGE



TRIANGLE



CIRCLE



CYLINDER TALL



CYLINDER BALANCED



Job Name:

Health Care Center No. 3 Improvements - Phase 1 -
New Public Elevator - Ramp Lighting
Architect: A K ARCHITECTURE, LLC (PHILA)
Engineer: Chestnut Engineering (Ardmore)

Catalog Number:

PPT-196L-1675-WW-G2-T3-3-120-FAWS-EHS-MGY
SRA-CA-4-125-12-T3D4L-N-MG AB 3/4X17X3-G DEC
W/ 9 BC ABT

Notes:**Type:****L3 LX3**

PENN22-209815

**Site & Area****PureForm**

PPT post top
with comfort optics



Gardco PureForm LED post top features a sleek, low profile design. Comfort optics are designed to enhance visual comfort by reducing glare. Type 1, 2, 3, and 5 optical distributions are available with lumen output up to 9000 lumens. A full range of control options provides additional energy savings. Optional integral emergency battery backup is available for path-of-egress illumination.

Project: _____
Location: _____
Cat.No: _____
Type: _____
Lamps: _____ Qty: _____
Notes: _____

Ordering guide

example: PPT-196L-450-NW-G2-T3-1-UNV-DGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution	Emergency	Voltage
PPT							
PPT PureForm post top, comfort optics	196L 196 LEDs	450 450mA	WW-G2 Warm White 3000K, 80CRI Generation 2	T3 Mounts to a 3" x 4" Tenon (standard)	1 Comfort Type 1	Leave blank for no battery	120 120V
	650 650mA	1150 1150mA¹	NW-G2 Neutral White 4000K, 80CRI Generation 2	T2 Mounts to a 2-3/8" x 4" Tenon (must be ordered and shipped as a separate accessory)	2 Comfort Type 2	EBPC Emergency battery pack cold weather ^{2,4,5,6,7}	208 208V
	1675 1675mA^{1,2}	2100 2100mA^{1,2}	CW-G2 Cool White 5000K, 70CRI Generation 2		3 Comfort Type 3	EBP Emergency battery pack ^{1,4,5,7}	240 240V
			WY-G2 Warm Yellow 2700K, 80 CRI Generation 2³		5 Comfort Type 5		277 277V
			BW-G2 Balanced White 3500K (80 CRI) Generation 2³				347 347V
			AM-G2 Amber Generation 2^{3,11}				480 480V
	140L 140 LEDs						UNV 120-277V (50/60Hz)
							HVU 347-480V (50/60Hz)

Options					Finish
Dimming controls	Motion sensing	Photo-sensing	Electrical/Shield		
DD 0-10V External dimming (by others) ⁴	IMR13 Integral with #3 lens ¹²	PCB Photocontrol Button ^{7,8}	Fusing	Textured	
FAWS Field Adjustable Wattage Selector ^{4,5}		TLRD5 Twist Lock Receptacle 5 Pin ^{9,14}	F1 Single (120, 277, 347VAC) ⁸	BK Black	
LLC Integral wireless module ^{9,10,13}		TLRD7 Twist Lock Receptacle 7 Pin ^{9,14}	F2 Double (208, 240, 480VAC) ⁸	WH White	
BL Bi-level functionality ^{4,13}		TLRPC Twist Lock Receptacle w/Photocell ^{8,10,14}	F3 Canadian Double Pull (208, 240, 480VAC) ⁸	BZ Bronze	
DynaDimmer: Automatic Profile Dimming ^{4,7}			Surge Protection (10kA standard)	DGY Dark Gray	
CS50 Security 50% Dimming, 7 hours			SP2 Increased 20kA	MGY Medium Gray	
CM50 Median 50% Dimming, 8 hours			EHS External house side shield (factory installed)	Customer specified	
CS30 Security 30% Dimming, 7 hours				RAL Specify optional color or RAL (ex: RAL7024)	
CM30 Median 30% Dimming, 8 hours				CC Custom color (Must supply color chip for required factory quote)	

- 1150, 1675, and 2100mA not available with emergency battery backup (EBP).
- 2100mA not available with emergency battery backup cold weather (EBPC).
- Extended lead times apply. Contact factory for details.
- Not available with other control options.

- Not available with motion sensor.
- Not available with photocontrol.
- Not available in 347 or 480V.
- Must specify input voltage.
- Dimming will not be connected to NEMA receptacle if ordering with other control options.
- Not available in 480V.

- Not available in 2100mA.
- Not available with DD and FAWS dimming control options.
- Must specify a motion sensor lens.
- Cannot be combined with HVU and BL-IMR13.

Job Name:

Health Care Center No. 3 Improvements - Phase 1 -
New Public Elevator - Ramp Lighting
Architect: A K ARCHITECTURE, LLC (PHILA)
Engineer: Chestnut Engineering (Ardmore)

Catalog Number:

PPT-196L-1675-WW-G2-T3-3-120-FAWS-EHS-MGY
SRA-CA-4-125-12-T3D4L-N-MG AB 3/4X17X3-G DEC
W/ 9 BC ABT

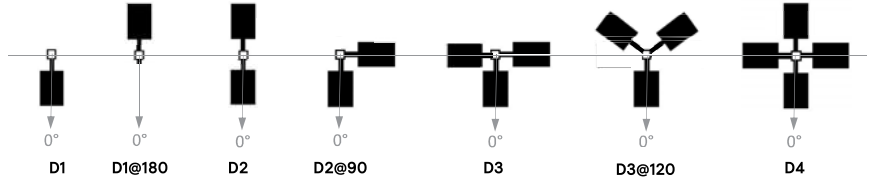
Notes:**Type:****L3**

PENN22-209815

Poles Straight Round Aluminum

Drilling Configuration

Code	Description
D1	Single Luminaire
D1@180	Single Luminaire @ 180
D2	Two Luminaires @ 180
D2@90	Two Luminaires @ 90
D3	Three Luminaires @ 90
D3@120	Three Luminaires @ 120
D4	Four Luminaires @ 90

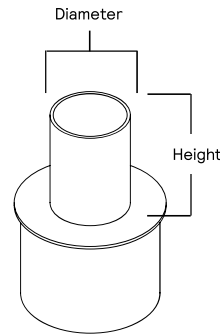
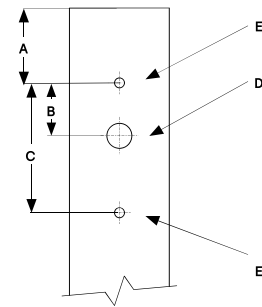


Ref. access door at 0° for all

Legacy design places access door at 180°

Tenon Dimensions

Tenon	Diameter	Height
T2D4L	2.375" (60mm)	4" (102mm)
T2D6L	2.375" (60mm)	6" (152mm)
T3D4L	3" (76mm)	4" (102mm)
T4D6L	4" (102mm)	6" (152mm)

**Pole Top Drilling****Luminaire Drill Pattern**

Code	Description	Luminaires	Pole Drilling				
			A To Pole Top	B	C Full Extent	D Wireway Hole	E Bolt Hole
DT1	Drill Template 1	Gardco SlenderForm Round SFRA	2.25" (57mm)	1.5" (38.1mm)	3" (76mm)	0.875" (22.2mm)	0.40" (10.2mm)
DT2	Drill Template 2	Gardco SlenderForm Square - SFA Gardco Gullwing - GL13, GL18 Gardco Form Ten - EH14L, EH19L, CAL17, CAL22, MAL17, MAL22	2.25" (57mm)	2.17" (55mm)	3.84" (98mm)	0.875" (22.2mm)	0.39" (9.9mm)
DT3	Drill Template 3	Gardco PowerForm PFAS	2.25" (57mm)	1.75" (44mm)	3.84" (98mm)	0.875" (22.2mm)	0.41" (10.4mm)
DT4	Drill Template 4	Gen1 Stonco/Keene AL150-G1, AL200-G1	2.5" (64mm)	1.7" (43mm)	3.5" (89mm)	0.875" (22.2mm)	0.41" (10.4mm)
DT5	Drill Template 5	Gardco EcoForm Gen2 - ECF-S, ECF-L Gardco PureForm Gen2 - P15, P20, P26, P34	3" (76mm)	1" (25mm)	3" (76mm)	1" (25mm)	0.41" (10.4mm)
DT6	Drill Template 6	Hole pattern drilled for the following: Gen2 Stonco/Keene AL70-G2 and AL150-G2, or to attach RLAR bracket accessory, suitable for use with: Lumec Capella CPLM, CPLS Lumec RoadStar GPLM, GPLS Lumec RoadFocus RFS, RFM, RFL Lumec RoadView RVM, RVS Lumec MiniView SVS Lumec StreetView SVM Gardco SolarForm BRP710	2.5" (64mm)	1" (25mm)	2" (50mm)	0.875" (22mm)	0.5" (12.7mm)

Job Name:

Health Care Center No. 3 Improvements - Phase 1 -
New Public Elevator - Ramp Lighting
Architect: A K ARCHITECTURE, LLC (PHILA)
Engineer: Chestnut Engineering (Ardmore)

Catalog Number:

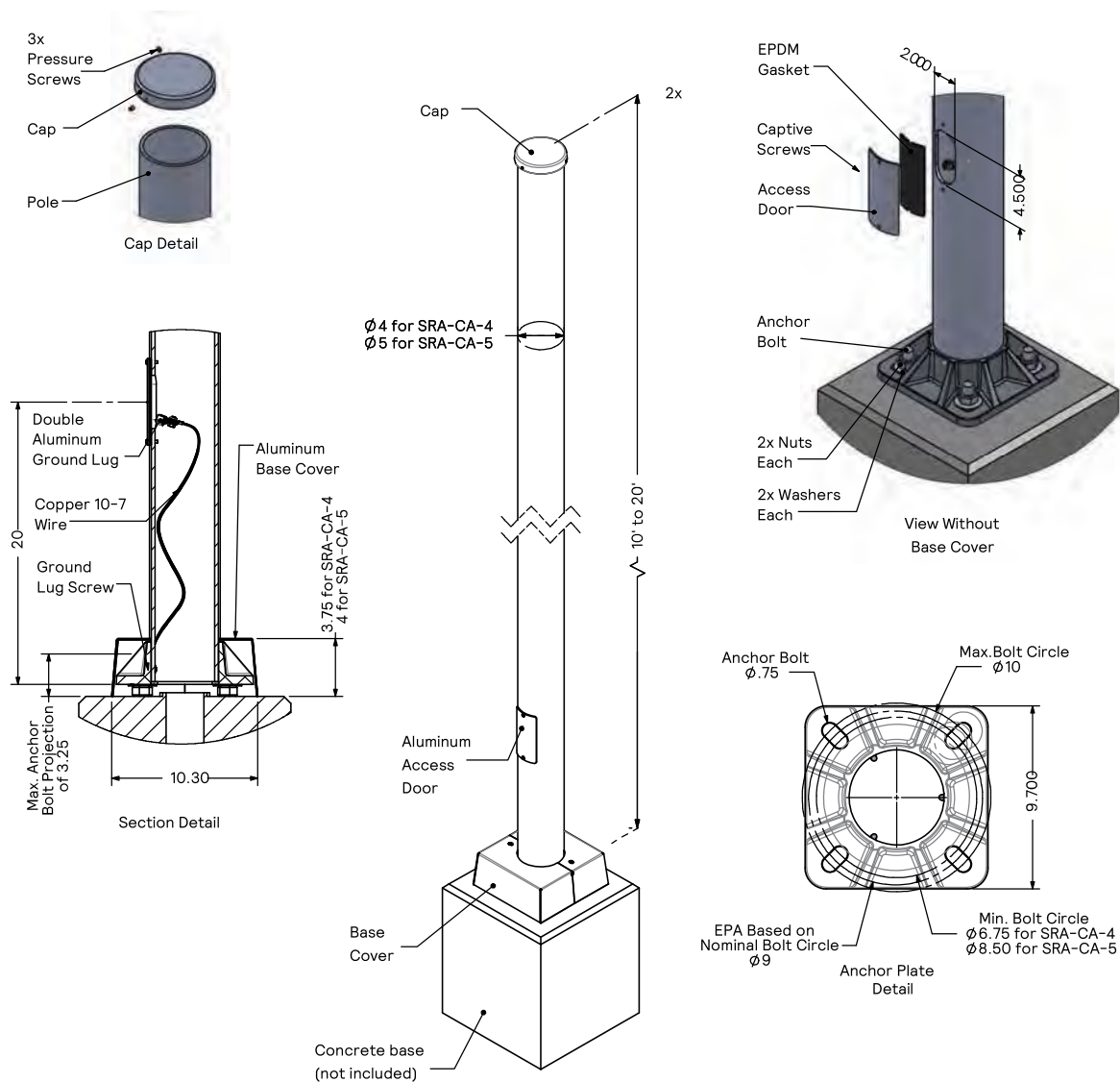
PPT-196L-1675-WW-G2-T3-3-120-FAWS-EHS-MGY
SRA-CA-4-125-12-T3D4L-N-MG AB 3/4X17X3-G DEC
W/ 9 BC ABT

Notes:**Type:****L3**

PENN22-209815

POLES Straight Round Aluminum

PROVIDE THIS POLE BASE MOUNTING PLATE - IT IS THE BASIS OF DESIGN

Dimensions and Specifications - Cast Aluminum Base

* Anchor Bolt Lock Washers are not normally required and are not included in standard anchor bolt sets. They are available upon request at additional cost.

** Grouting should include a drainage slot or tube (by others) to permit water to drain from the base of the pole. Failure to provide drainage may weaken the pole base structure over time and may result in pole base failure, for which Gardco is not responsible.

NOTE: Factory supplied template must be used when setting anchor bolts. Gardco will not honor any claim for incorrect anchorage placement from failure to use factory supplied templates.

**Job Name:**

Health Care Center No. 3 Improvements - Phase 1 -
New Public Elevator - Ramp Lighting
Architect: A K ARCHITECTURE, LLC (PHILA)
Engineer: Chestnut Engineering (Ardmore)

Catalog Number:

PPT-196L-1675-WW-G2-T3-3-120-FAWS-EHS-MGY
SRA-CA-4-125-12-T3D4L-N-MG AB 3/4X17X3-G DEC
W/ 9 BC ABT

Notes:**Type:****L3**

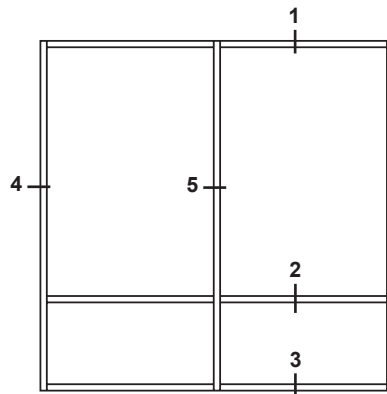
PENN22-209815

Poles Straight Round Aluminum

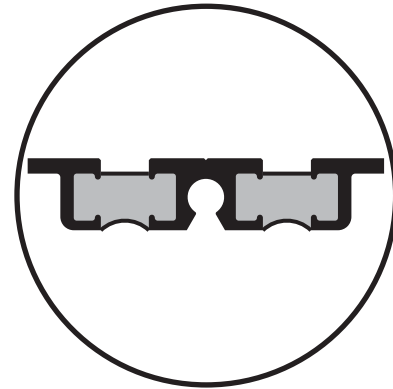
Pole Data

Product Catalog Number	Pole Specs				Anchor Bolt Data				
	Pole Diameter (in.)	Wall Thickness (in.)	Height (ft.)	Pole Weight (lbs.)	Bolt Circle (in.) EPA Nominal	Bolt Circle (in.) Minimum	Bolt Circle (in.) Maximum	Anchor Bolt Spec (in.)	Anchor Bolt Max Proj. (in.)
SRA-CA-4-125-10	4	0.125	10	17	9	6.75	10	3/4 x 17 x 3	3.25
SRA-CA-4-125-12	4	0.125	12	20	9	6.75	10	3/4 x 17 x 3	3.25
SRA-CA-4-125-15	4	0.125	15	25	9	6.75	10	3/4 x 17 x 3	3.25
SRA-CA-4-125-16	4	0.125	16	27	9	6.75	10	3/4 x 17 x 3	3.25
SRA-CA-4-125-18	4	0.125	18	31	9	6.75	10	3/4 x 17 x 3	3.25
SRA-CA-4-125-20	4	0.125	20	34	9	6.75	10	3/4 x 17 x 3	3.25
SRA-CA-4-188-10	4	0.188	10	25	9	6.75	10	3/4 x 17 x 3	3.25
SRA-CA-4-188-12	4	0.188	12	30	9	6.75	10	3/4 x 17 x 3	3.25
SRA-CA-4-188-15	4	0.188	15	38	9	6.75	10	3/4 x 17 x 3	3.25
SRA-CA-4-188-16	4	0.188	16	40	9	6.75	10	3/4 x 17 x 3	3.25
SRA-CA-4-188-18	4	0.188	18	45	9	6.75	10	3/4 x 17 x 3	3.25
SRA-CA-4-188-20	4	0.188	20	50	9	6.75	10	3/4 x 17 x 3	3.25
SRA-CA-5-125-15	5	0.125	15	32	9	8.5	10	3/4 x 17 x 3	3.25
SRA-CA-5-125-16	5	0.125	16	34	9	8.5	10	3/4 x 17 x 3	3.25
SRA-CA-5-125-18	5	0.125	18	38	9	8.5	10	3/4 x 17 x 3	3.25
SRA-CA-5-125-20	5	0.125	20	42	9	8.5	10	3/4 x 17 x 3	3.25
SRA-CA-5-188-15	5	0.188	15	47	9	8.5	10	3/4 x 17 x 3	3.25
SRA-CA-5-188-16	5	0.188	16	50	9	8.5	10	3/4 x 17 x 3	3.25
SRA-CA-5-188-18	5	0.188	18	56	9	8.5	10	3/4 x 17 x 3	3.25
SRA-CA-5-188-20	5	0.188	20	63	9	8.5	10	3/4 x 17 x 3	3.25
SRA-HB-4-125-10	4	0.125	10	17	8.5	7.25	10	3/4 x 17 x 3	3.5
SRA-HB-4-125-12	4	0.125	12	20	8.5	7.25	10	3/4 x 17 x 3	3.5
SRA-HB-4-125-15	4	0.125	15	25	8.5	7.25	10	3/4 x 17 x 3	3.5
SRA-HB-4-125-16	4	0.125	16	27	8.5	7.25	10	3/4 x 17 x 3	3.5
SRA-HB-5-125-15	5	0.188	15	32	10.5	9.75	11	3/4 x 17 x 3	3.5
SRA-HB-5-125-16	5	0.188	16	34	10.5	9.75	11	3/4 x 17 x 3	3.5
SRA-STB-4-125-10	4	0.125	10	39	7	7	7	3/4 x 17 x 3	3
SRA-STB-4-125-12	4	0.125	12	45	7	7	7	3/4 x 17 x 3	3
SRA-STB-4-125-15	4	0.125	15	50	7	7	7	3/4 x 17 x 3	3
SRA-STB-4-125-16	4	0.125	16	54	7	7	7	3/4 x 17 x 3	3
SRA-STB-4-125-18	4	0.125	18	58	7	7	7	3/4 x 17 x 3	3
SRA-STB-4-125-20	4	0.125	20	62	7	7	7	3/4 x 17 x 3	3
SRA-STB-4-188-10	4	0.188	10	48	7	7	7	3/4 x 17 x 3	3
SRA-STB-4-188-12	4	0.188	12	55	7	7	7	3/4 x 17 x 3	3
SRA-STB-4-188-15	4	0.188	15	63	7	7	7	3/4 x 17 x 3	3
SRA-STB-4-188-16	4	0.188	16	68	7	7	7	3/4 x 17 x 3	3
SRA-STB-4-188-18	4	0.188	18	73	7	7	7	3/4 x 17 x 3	3
SRA-STB-4-188-20	4	0.188	20	79	7	7	7	3/4 x 17 x 3	3
SRA-STB-5-125-15	5	0.125	15	66	10	10	10	1 x 33 x 3	3
SRA-STB-5-125-16	5	0.125	16	72	10	10	10	1 x 33 x 3	3
SRA-STB-5-125-18	5	0.125	18	77	10	10	10	1 x 33 x 3	3
SRA-STB-5-125-20	5	0.125	20	81	10	10	10	1 x 33 x 3	3
SRA-STB-5-125-25	5	0.125	25	96	10	10	10	1 x 33 x 3	3
SRA-STB-5-125-30	5	0.125	30	111	10	10	10	1 x 33 x 3	3

Additional information and CAD details are available at www.kawneer.com



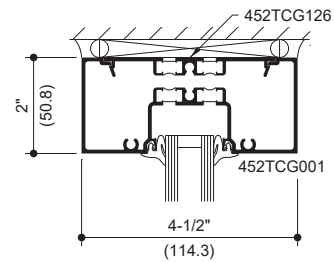
ELEVATION IS NUMBER KEYED TO DETAILS



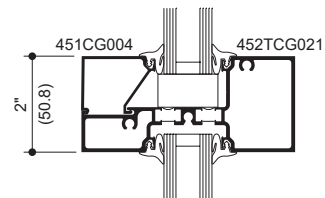
DUAL IsoLock® THERMAL BREAK

SCREW SPLINE

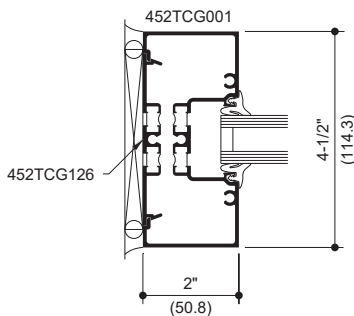
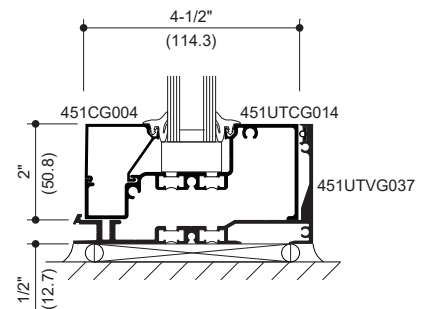
1
HEAD



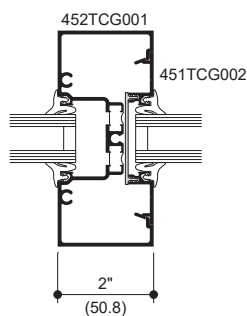
2
HORIZONTAL



3
SILL



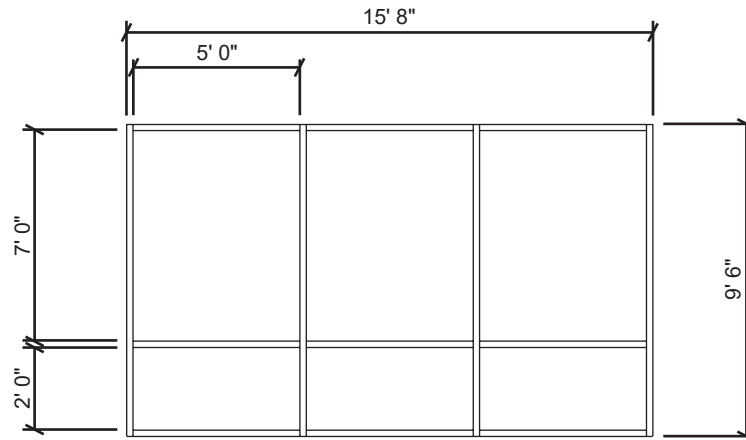
4
JAMB



5
VERTICAL

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. hardware, or glazing materials, and assumes no responsibility therefor.

necessary for product improvement.
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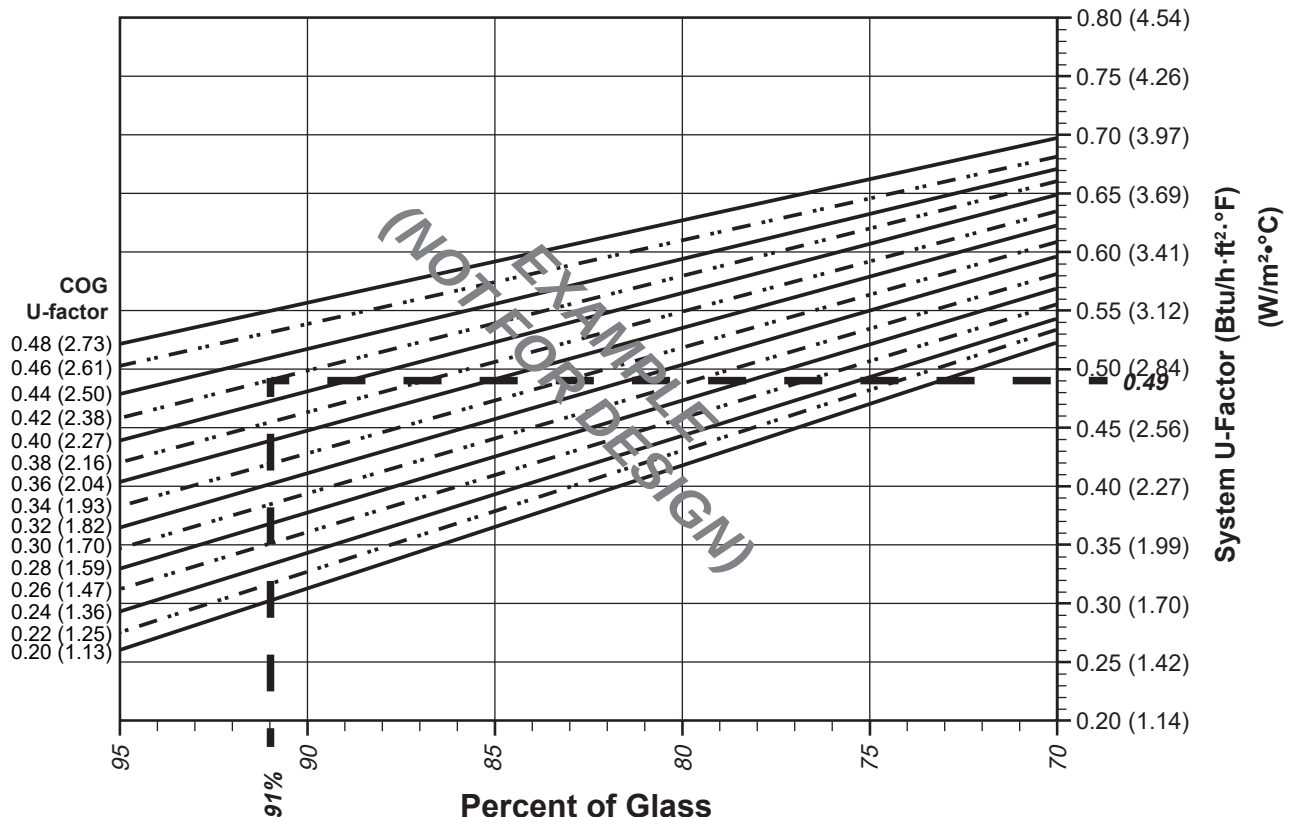
Example Glass U-factor = 0.42 Btu/hr·ft²·°F

Total Daylight Opening = 3(5' x 7') + 3(5' x 2') = 135ft²

Total Projected Area = (Total Daylight Opening + Total Area of Framing System)
= 15' 8" x 9' 6" = 148.83ft²

Percent of Glass = (Total Daylight Opening ÷ Total Projected Area)
= (135 ÷ 148.83)100 = 91%

System U-factor vs Percent of Glass Area



Based on 91% glass and center of glass (COG) U-factor of 0.42
System U-factor is equal to 0.49 Btu/hr x ft² x °F

TRIFAB® VG (VERSAGLAZE®)
TRIFAB® VG 450, 451 & 451T (THERMAL) FRAMING SYSTEMS &
TRIFAB® 451UT (ULTRA THERMAL) FRAMING SYSTEM



Design + Performance

Versatility with Unmatched Fabrication Flexibility



Geisinger Professional Building
Jenkins Township, Pennsylvania
ARCHITECT
Mericle Commercial Real Estate Services
Wilkes-Barre, Pennsylvania
GLAZING CONTRACTOR
Sterling Glass, Inc., Scranton, Pennsylvania
PHOTOGRAPHER
© Perzel Photography Group

Trifab® VersaGlaze® is built on the proven and successful Trifab® platform – with all the versatility its name implies. There are enough framing system choices, fabrication methods, design options and performance levels to please the most discerning building owner, architect and installer. The 4.5" depth Trifab® VersaGlaze® Framing System family is available with non-thermal, thermal and ultra-thermal performance levels. The ultra-thermal Trifab® 451UT Framing System, is designed for the most demanding thermal performance and employs a dual Isolock® thermal break.

AESTHETICS

Trifab® VersaGlaze® Framing Systems offer designers a choice of front-, center-, back- or multi-plane glass applications. Structural silicone

glazing (SSG) and weatherseal glazing options further expand designers' choices, allowing for a greater range of possibilities for specific project requirements and architectural styles. All systems have a 4-1/2" frame depth; Trifab® VersaGlaze® 450 has 1-3/4" sightlines, while Trifab® VersaGlaze® 451/451T and Trifab® 451UT have 2" sightlines.

With seamless incorporation of Kawneer entrances or windows, including GLASSvent® visually frameless ventilators, Trifab® framing can be used on almost any project. These framing systems can also be packaged with Kawneer curtain walls and overhead glazing, thereby providing a full range of proven, and tested, quality products for the owner, architect and installer from a single-source supplier.

ECONOMY

Trifab® VersaGlaze® 450/451/451T/451UT Framing Systems offer a variety of fabrication choices to suit your project:

- **Screw Spline** – for economical continuous runs utilizing two-piece vertical members that provide the option to pre-assemble units with controlled shop labor costs and smaller field crews for handling and installation. (available for all systems)
- **Shear Block** – for punched openings or continuous runs using tubular moldings with shear block clips that provide tight joints for transporting large pre-assembled multi-lite units. (available for 450/451/451T systems)
- **Stick** – for fast, easy field fabrication. Field measurements and material cuts can be done when metal is on the jobsite. (available for 450/451/451T systems)
- **Pre-glazed** – The combination of screw spline construction with pre-glazing in the shop accelerates installation and reduces field labor time while minimizing disruption to the surrounding area or existing tenants. Making it an exceptional choice for new or retrofit applications, particularly in urban areas or where space is limited. (available for 451/451T/451UT framing)



Brighton Landing
Cambridge, Massachusetts
ARCHITECT
ADD Inc., Cambridge, Massachusetts
GLAZING CONTRACTOR
Ipswich Bay Glass Company, Inc., Rowley, Massachusetts
PHOTOGRAPHER
© Gordon Schenck, Jr.

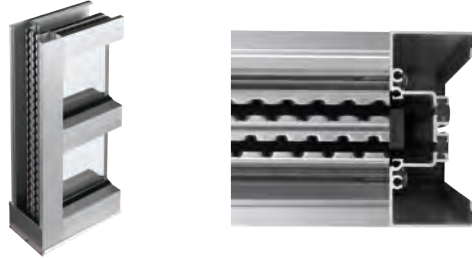
All systems can be flush glazed from either the inside or outside. The weatherseal option provides an alternative to SSG vertical mullions for Trifab® VersaGlaze® 450/451/451T. This ABS/ASA rigid polymer extrusion allows complete inside glazing and creates a flush glass appearance on the building exterior without the added labor of scaffolding or swing stages. Additionally, high-performance flashing options are engineered to eliminate perimeter sill fasteners and associated blind seals.

FOR THE FINISHING TOUCH

Architectural Class I anodized aluminum and painted finishes in fluoropolymer (AAMA 2605) and solvent-free powder coatings (AAMA 2604) offer a variety of color choices.

PERFORMANCE

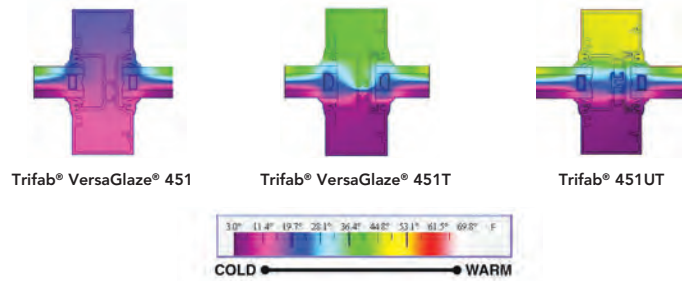
Kawneer's Isolock® thermal break technology creates a composite section, prevents dry shrinkage and is available on Trifab® VersaGlaze® 451T. For even greater thermal performance, a dual Isolock® thermal break is used on Trifab® 451UT.



Trifab® 451UT uses a dual Isolock® thermal break (right) and features a new high-performance sill design, which incorporates a screw-applied end dam (left), ensuring positive engagement and tight joints between the sill flashing and end dam.

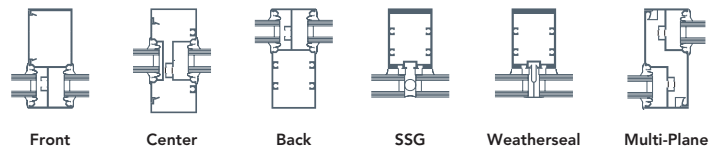
U-factor, CRF values and STC ratings for Trifab® framing systems vary depending upon the glass plane application. Project-specific U-factors can be determined for each individual project. (See the Kawneer Architectural Manual or Kawneer.com for additional information.)

Thermal simulations showing temperature variations from exterior/cold side to interior/warm side.



PERFORMANCE TEST STANDARDS

Air Infiltration	ASTM E283
Water	AAMA 501, ASTM E331
Structural	ASTM E330
Thermal	AAMA 1503
Thermal Break	AAMA 505, AAMA TIR-A8
Acoustical	AAMA 1801, ASTM E1425





ULTRA THERMAL PERFORMANCE WITH A SLIM SIGHTLINE

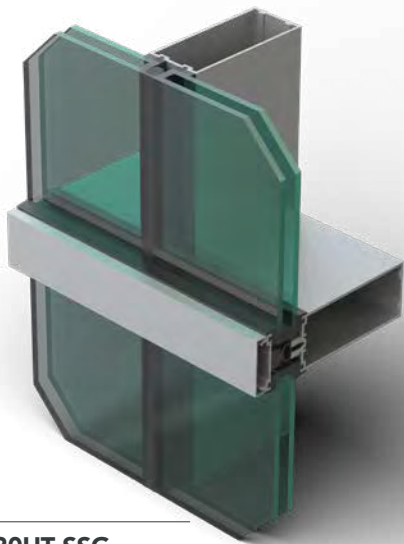
1620UT/1620UT SSG CURTAIN WALL SYSTEM

Merging a slim, sleek sightline with advanced thermal performance and seismic testing, the 1620UT/1620UT SSG Curtain Wall System touts a powerful combination of features.

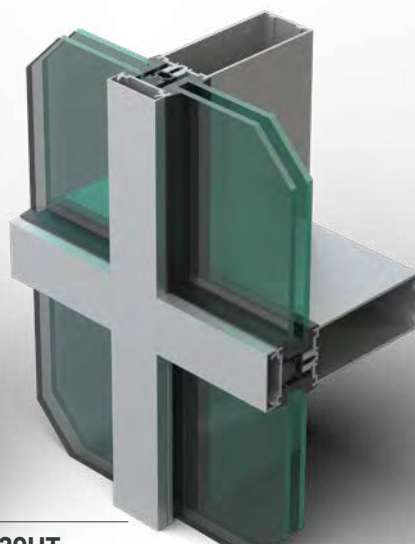
Built on the success of the 1600UT Curtain Wall, the 1620UT/1620UT SSG Curtain Wall System delivers versatility and reliability, making it an excellent choice for low- to mid-rise applications in climates where high thermal or seismic performing façades are needed.

This 1620UT/1620UT SSG Curtain Wall System features an engineered polymer thermal separator and accommodates 1/4", 1" and 1 3/4" glazing infills. This curtain wall integrates seamlessly with other high thermal performing windows and doors from Kawneer to create a complete, advanced, thermally efficient solution for commercial buildings.

Tested to US and Canadian standards and featuring a slimmed-down sightline, the 1620UT/1620UT SSG Curtain Wall System allows occupants to see more and stay comfortable all year round, whatever the weather brings.



**1620UT SSG
CURTAIN WALL
DOUBLE-PANE GLASS**



**1620UT
CURTAIN WALL
DOUBLE-PANE GLASS**

AESTHETICS

The 1620UT Curtain Wall System offers a traditional captured look or a two-sided vertical SSG mullion solution that permits greater uninterrupted sightlines while providing enhanced thermal performance.

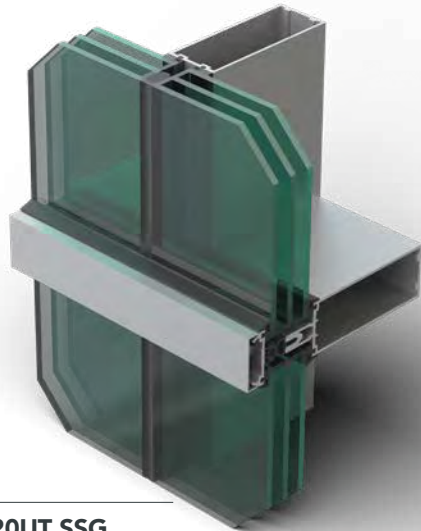
To create flush and unbroken sightlines, both systems use concealed fasteners in their joinery construction.

Mullion depth options provide both aesthetic design and structural range flexibility. Choices of 90° and 135° are available for corner mullion conditions.

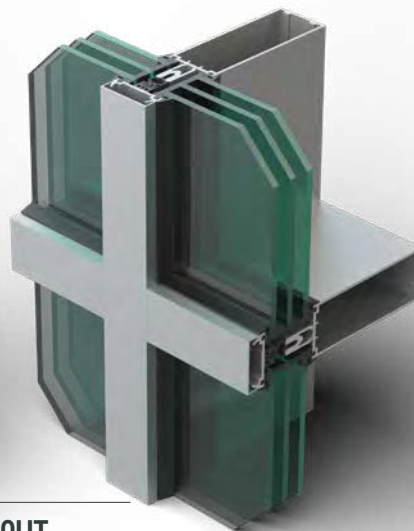
FABRICATION AND INSTALLATION

Installation time and effort are minimized in a number of ways:

- Installers can leverage their knowledge of fabrication and installation methods for the 1600 Curtain Wall platform.
- Straight cuts without notching simplify fabrication.
- A pre-engineered rain screen pressure-equalized (RSPE) back pan option is available that uses easy-to-install spandrel adapters.



**1620UT SSG
CURTAIN WALL
TRIPLE-PANE GLASS**



**1620UT
CURTAIN WALL
TRIPLE-PANE GLASS**

Features

- 1620UT Curtain Wall System is a high thermal performance, outside glazed, captured curtain wall system
- Innovative design delivers high thermal performance while leveraging 1600 Wall System architecture
- 1620UT has a 2" narrow (50.8) sightline
-
-
- Thermally Broken by means of a continuous 1" (25.4) low conductance engineered polymer
- Comprehensively tested to high performance air, water, structural, seismic, thermal, and acoustical standards
- Concealed fastener joinery creates smooth, monolithic appearance
- Open-back horizontals and perimeters are available for cost savings
- Shear block fabrication method
- Corner mullions and Splayed mullions
-
- Silicone compatible glazing materials for long-lasting seals
- Two color option
- Permanodic®
-

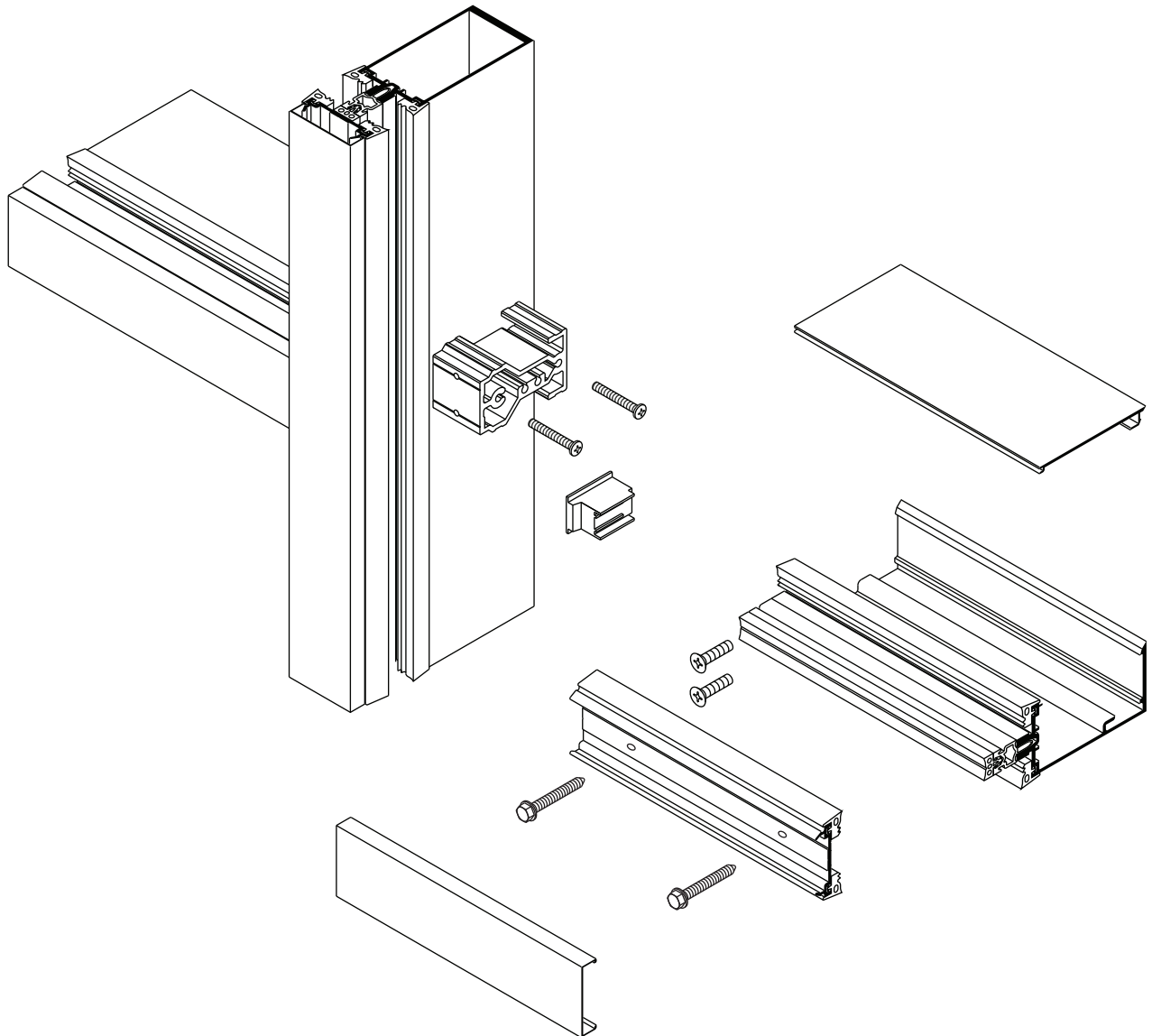
Optional Features

- Steel reinforcing
- Rain screen and backpans
- Deep covers
- Heavy-weight mullions
- Fiberglass pressure plates
- Integrates with standard Kawneer windows and GLASSvent® windows for curtain wall
- ® Plus die sets

Product Applications

- Ideal for low to mid-rise applications where high performance is desired

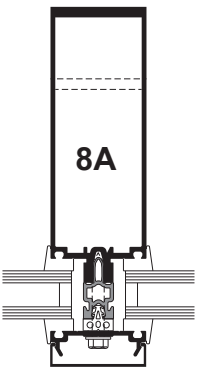
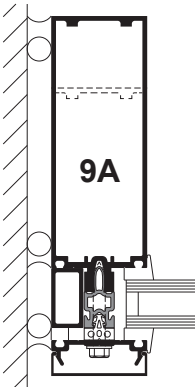
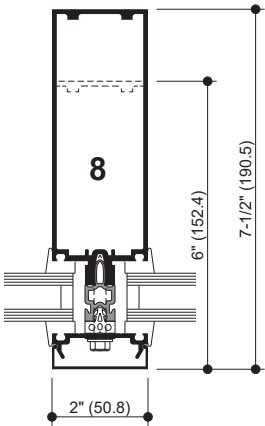
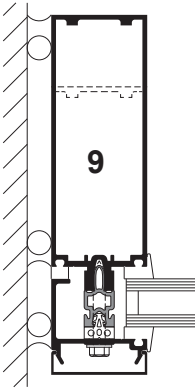
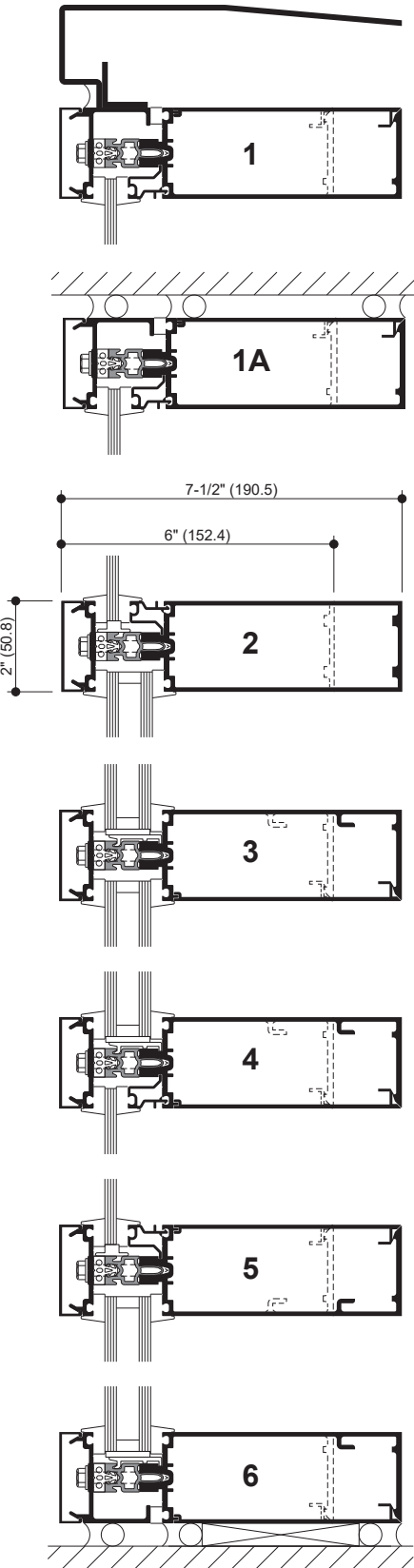
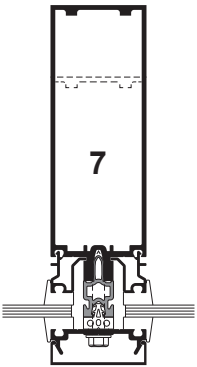
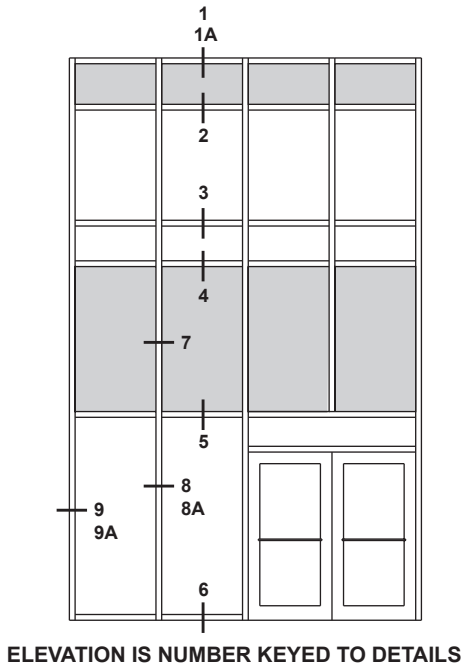
consult your Kawneer representative.



Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. hardware, or glazing materials, and assumes no responsibility therefor.

necessary for product improvement.
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Additional information and CAD details are available at www.kawneer.com

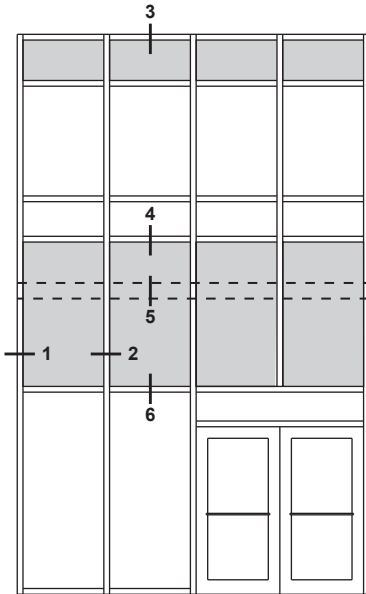


HEAVY VERTICAL
MULLION

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. hardware, or glazing materials, and assumes no responsibility therefor.

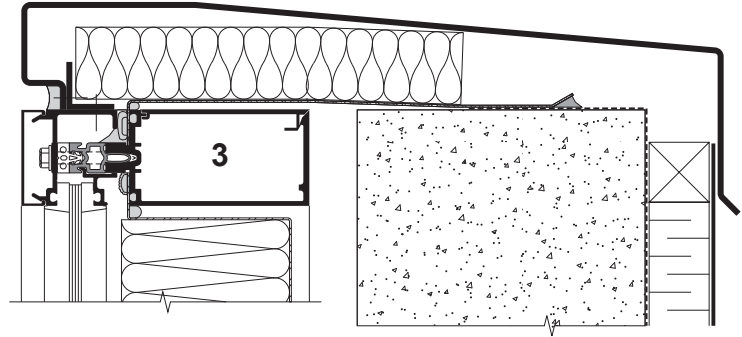
necessary for product improvement.
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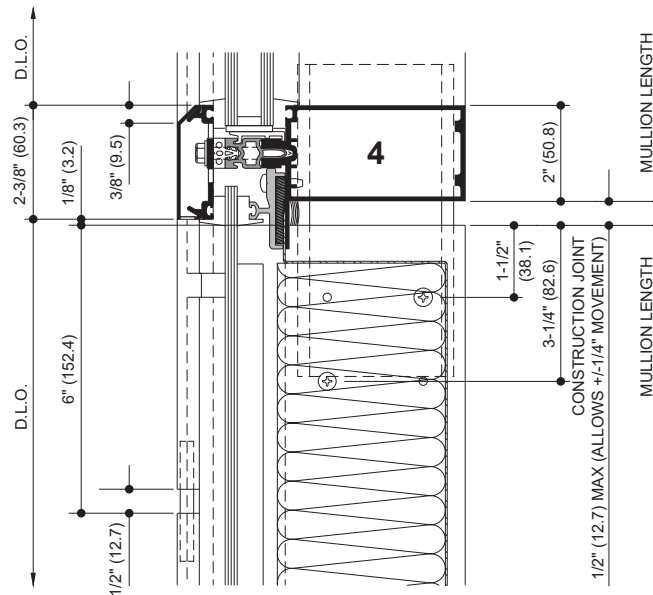


ELEVATION IS NUMBER KEYED TO DETAILS

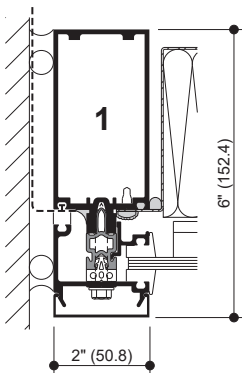
NOTE: 6" SYSTEM SHOWN,
7-1/2" SYSTEM SIMILAR



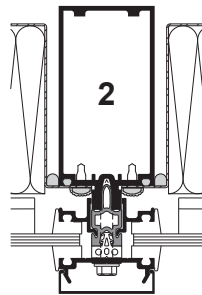
HEAD TRANSOM AT PARAPET FLASHING



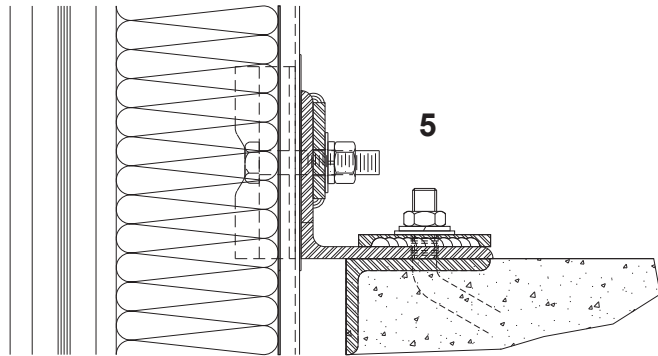
EXPANSION JOINT



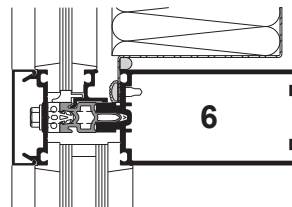
JAMB MULLION
AT SPANDREL
(With vapor barrier tie-in)



MULLION AT SPANDREL



TYPICAL DEADLOAD ANCHOR

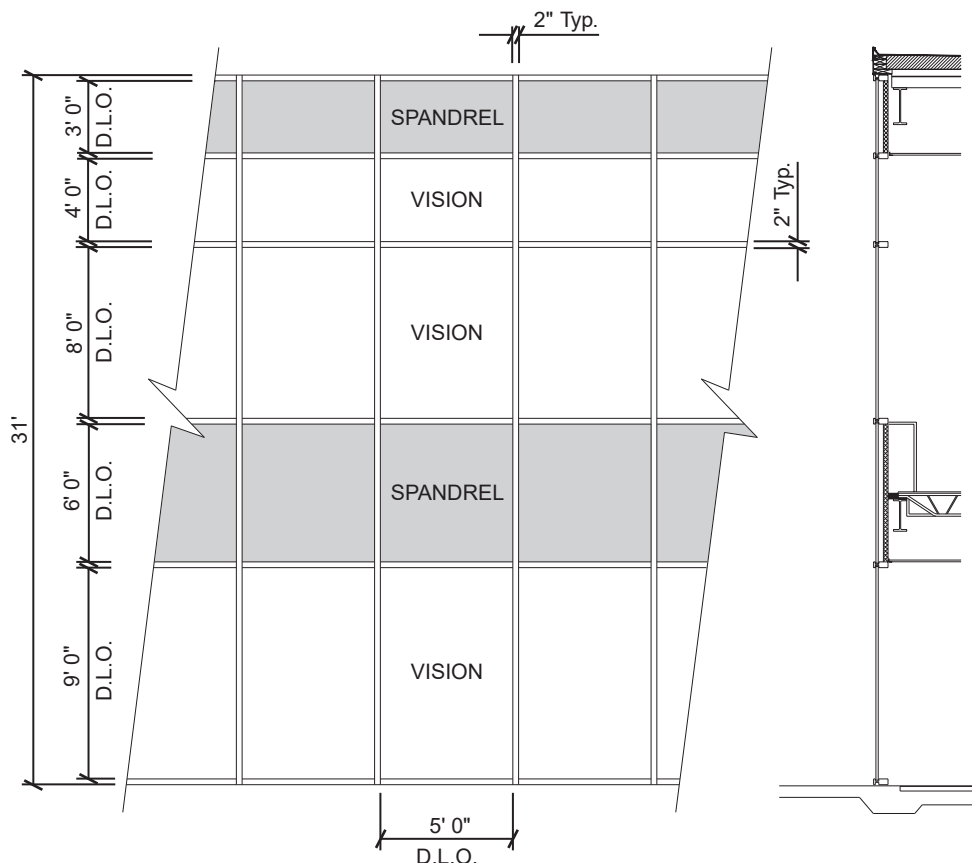


TRANSOM – SPANDREL OVER VISION

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necessary for product improvement.
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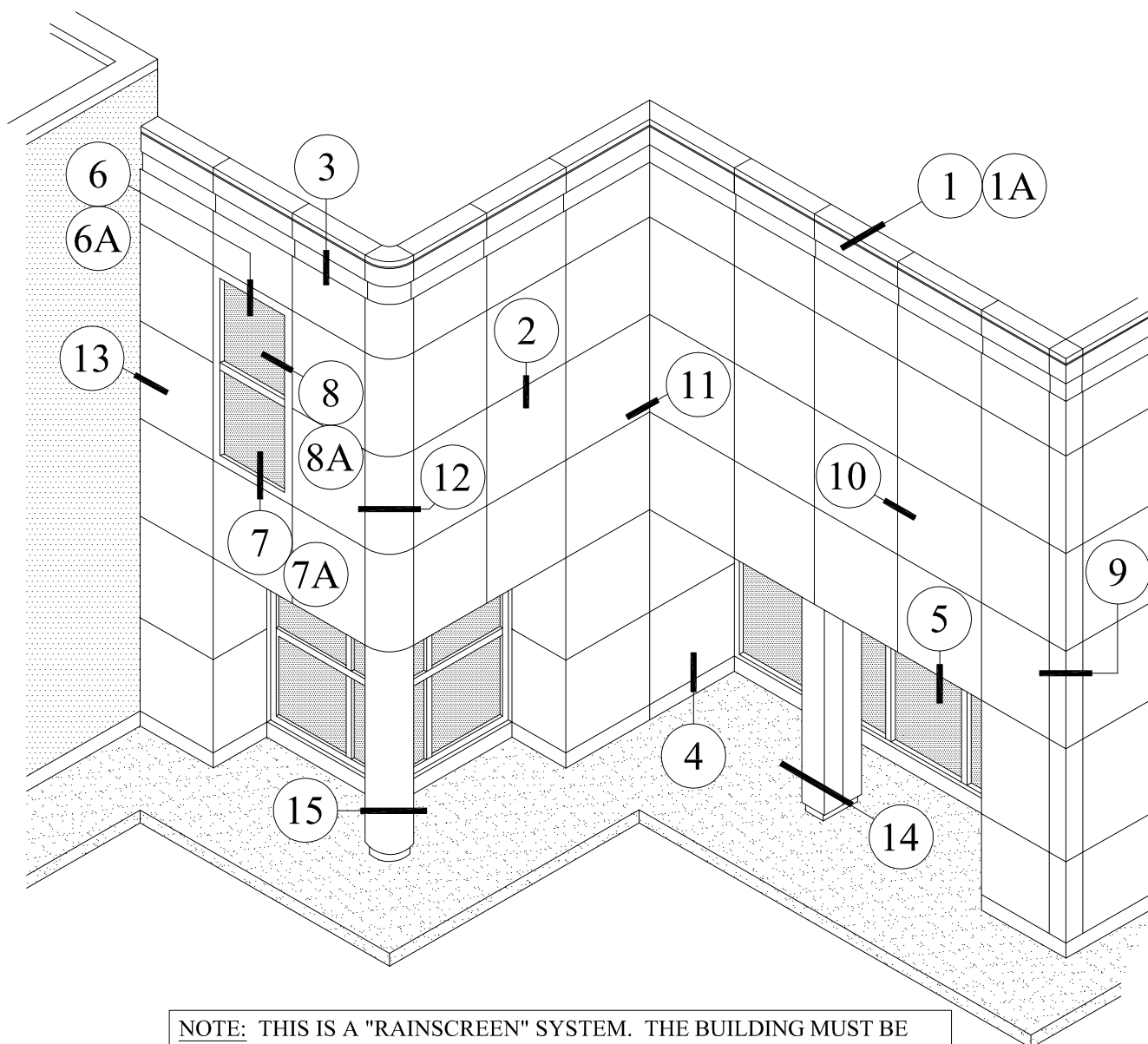
(Based on single bay of Curtain Wall/Window Wall)



Vision Area

Example Glass U-factor	= 0.28 Btu/(ft ² · h · °F)
Vision Area	= 5(9 + 8 + 4) = 105.0 ft ²
Total Area (Vision)*	= 5' 2" (9' 3" + 8' 2" + 4' 2") = 111.5 ft ²
Percentage of Vision Glass	= (Vision Area ÷ Total Area)100 = (105.0 ÷ 111.5)100 = 94%

* Area taken to the centerlines of vertical mullions and centerline of horizontal at spandrels.



NOTE: THIS IS A "RAINSCREEN" SYSTEM. THE BUILDING MUST BE WATERTIGHT PRIOR TO THE INSTALLATION OF THE PANEL SYSTEM.

DETAIL LEGEND

1- STANDARD PARAPET	6A- OPTIONAL WINDOW HEAD	11- INSIDE CORNER
1A- OPTIONAL PARAPET	7- STANDARD WINDOW SILL	12- ROUND OUTSIDE CORNER
2- HORIZONTAL JOINT	7A- OPTIONAL WINDOW SILL	13- ABUTMENT
3- FEATURE BAND	8- STANDARD WINDOW JAMB	14- SQUARE COLUMN
4- BASE CONDITION	8A- OPTIONAL WINDOW JAMB	15- CIRCULAR COLUMN
5- WALL SOFFIT	9- SQUARE OUTSIDE CORNER	
6- STANDARD WINDOW HEAD	10- VERTICAL JOINT	

(T1) SL-2000 DETAIL LAYOUT



HAMILTON,
ONTARIO



Metal Composite Material Panel Systems

Sobotec predominantly uses Alucobond® for its MCM Panel Systems. Alucobond® is a global brand leader for metal composite material (MCM) and has been time- and-laboratory tested to meet stringent building code requirements.

Developed in 1969, Alucobond® manufactured the original aluminum composite material (ACM), which is also known as MCM.

ALUCOBOND®
GIVING SHAPE TO GREAT IDEAS

Alucobond
Colour Samples

Alucobond
Product Info

Sobotec is credited for being the first company to develop an engineered Rainscreen System for aluminum composites. This innovation revolutionized the use of the material for the architectural and building industries in North America

Alucobond Leed



Sobotec is one of only a handful of companies to be certified by the Metal Construction Association (MCA) as a Certified Premium MCM Fabricator.

SL-2000

Dry Joint Pressure Equalized Rainscreen (PER) System

The SL-2000 is a low-maintenance and easily customizable PER system. This system features a double line of defense against water penetration. The first is a pressure equalized air cavity that mitigates the differential forces that attempt to draw water into a structure. The second is a fully protected weather barrier that blocks any residual moisture. The MCM joint filler allows variance in both color and joint size. The SL-2000 system has been continuously upgraded and tested as per the changing North American building code requirements. It is also tested to the American Architectural Manufacturers Association (AAMA) 508 standard for PER systems. The test report is available to design professionals through Sobotec's engineering department. The SL-2000 system can also be used with solid aluminum plate and natural metals.



Special Features

- AAMA 508 Tested: Pressure Equalized Rainscreen System

- Ventilated cavity allows wall to breathe
- Joint filler allows for variable color and reveal size
- Low-maintenance, flexible panel design
- Concealed air barrier membrane provides improved weather resistance
- Able to modify and customize for highly complex projects

System Characteristics & Testing	
Material:	Metal Composite Material
Joint Type:	Dry
Standard Joint Size:	1/2"
Testing:	Tested to AAMA 508 Standard. AAMA 501.1, ASTM E331-00, ASTM E330-02, ASTM 283-04
Wall Design:	Pressure Equalized Rainscreen System

[View Design Details](#)

Metal Composite Projects