

Architectural Review Board Staff Report

Project type: Site Development Section Plan

Meeting Date: May 09, 2024

From: Shilpi Bharti, Planner *SB*

Location: 714 Long Road Crossing Drive

Description: **Long Road Crossing, Lot B-2:** A Site Development Section Plan, Landscape Plan, Lighting Plan and Architectural Elevations for a vehicle repair facility located on a 4.6-acre tract of land located east side of Long Road Crossing Drive, zoned “PC”-Planned Commercial.

PROPOSAL SUMMARY

Omaha Collision Company, LLC has submitted a Site Development Section Plan, Landscape Plan, Lighting Plan, and Architectural Elevations for a proposed vehicle repair facility building to be known as B Street Collision Center located at 714 Long Road Crossing Drive in the Long Road Crossing subdivision.

Proposed Development includes:

- 28,468 square feet of building
- 146 parking spaces
- Landscape Plan
- Lighting Plan



Figure 1: Subject Location

HISTORY OF SUBJECT SITE

The site is located in the Long Road Crossing subdivision of the City of Chesterfield. The subdivision was zoned “M3” –Planned Industrial District prior to City’s incorporation. In 2000, the site was rezoned to “PC”Planned Commercial creating ordinance 1595. Later in 2004 and 2007 the ordinance was amended to modify the development standards and permitted uses. The current ordinance governing the site is ordinance 2351. In 2003, the Site Development Concept Plan for the subdivision was approved. Later

in 2005, and 2015 Site Development Concept Plan was amended to create more than six lots. Today, the Long Road Crossing subdivision is comprised of nine (9) lots. Currently, the applicant has submitted an Amended Site Development Concept Plan, Boundary Adjustment Plat, and Vacation of Easement for the subdivision. The submitted Amended Site Development Concept Plan will create a total of seven lots and will revise the existing south side property line of Lot B-2. The Boundary adjustment plat (which is under review) reflects the lot configuration as shown in an Amended Site Development Concept Plan. The figure below shows the updated lot line for Lot B-2.

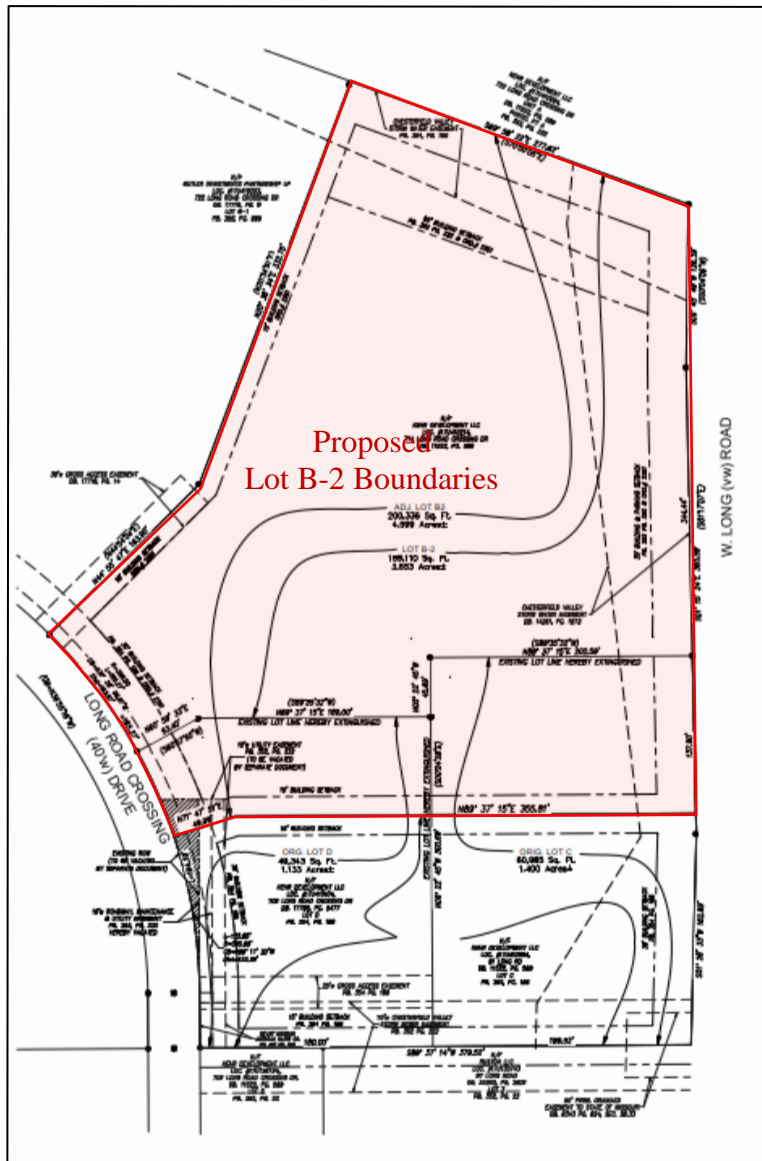


Figure 2: Submitted Boundary Adjustment Plat

STAFF ANALYSIS

The Site Development Section Plan for Lot B-2 proposes a 28,468 square foot vehicle repair and service facility. The building will have access from an existing shared drive located on the west side of the property. The east and north side of the property faces the westbound Long Road and Interstate I-64,

respectively. A trash enclosure and cardboard compactor are located on the east side of the property. The City of Chesterfield Unified Development Code (UDC) provides general requirements for site design and building design which are further described in the report.

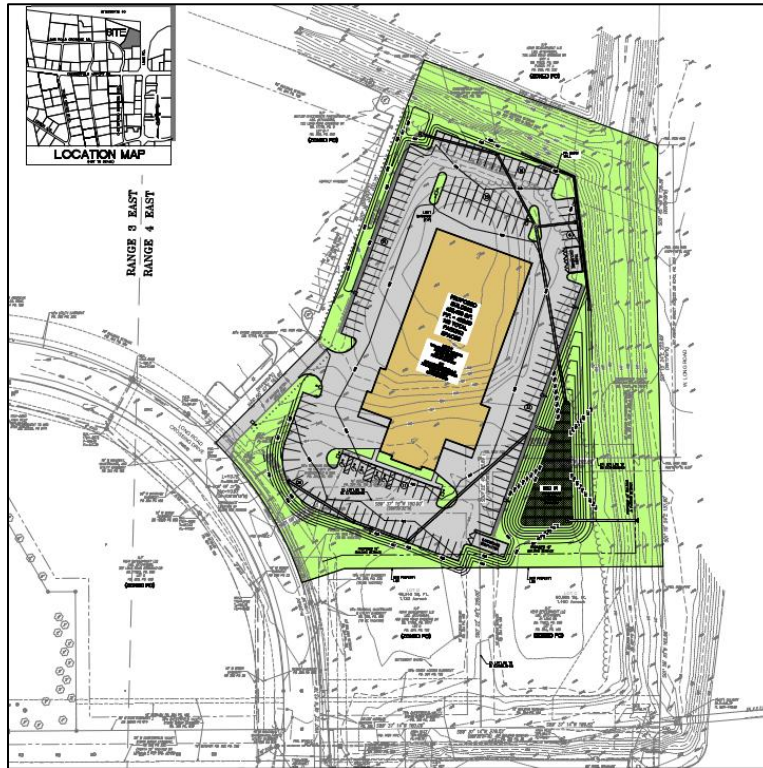


Figure 3: Colored Site Plan

Site Relationships

The proposed building is 28,468 square feet on 4.6 acres of land. The height of the proposed single-story building is 30'. The site is surrounded by westbound Long Road on the east, Interstate I-64 on the north, vacant land on the south, and single-story car dealership building "Kia" on the west side.

Circulation System and Access

The site is accessed through Long Road Crossing Drive that leads to the private cross access drive located on the west side of the property. Internal driveways are 22'-40' wide with two-way access.

Scale, Topography, Retaining Wall and Screening

The site sits vacant and is surrounded by a building on the north and vacant land on the south side. The site is relatively flat. There is a retaining wall proposed on the northeast side of the property near the proposed parking area. There will be roof top mechanical equipment that will be screened by a parapet and screen wall.

Materials and Color

There are five prominent building materials used for all four sides of the building elevations. The front elevation faces the Long Road Crossing Drive. The front façade consists of bricks and ACM panels. The

west side elevation consists of bricks, ACM panels and precast concrete panels. There will be four exterior insulated overhead doors and one exterior insulated glass overhead door on the west side elevation. The east side of the building faces westbound Long Road. The east façade consists of bricks and precast concrete panel with six overhead doors.

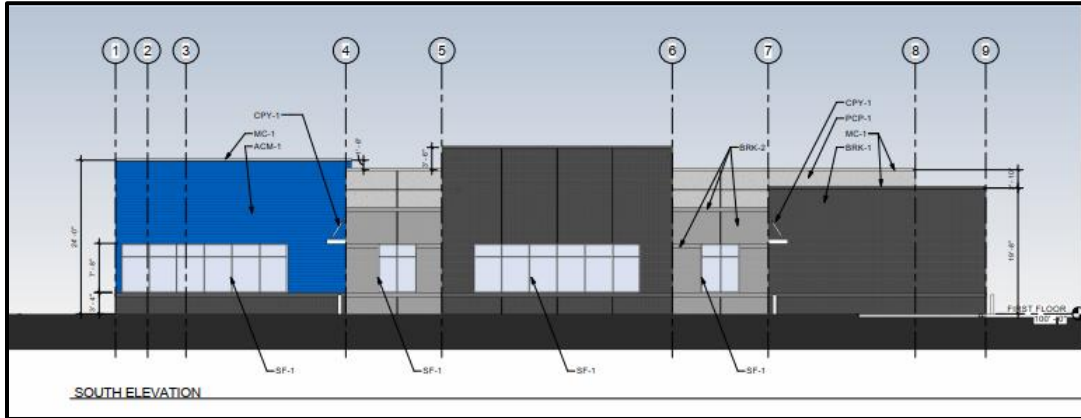


Figure 4: Front Elevation

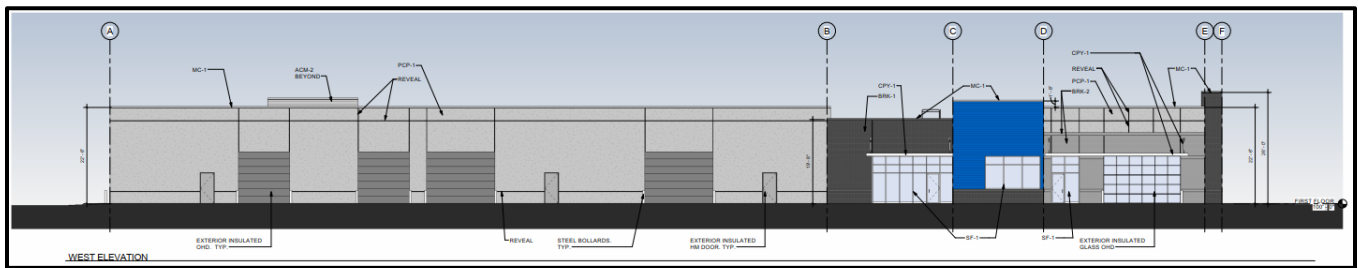


Figure 5: West side Elevation

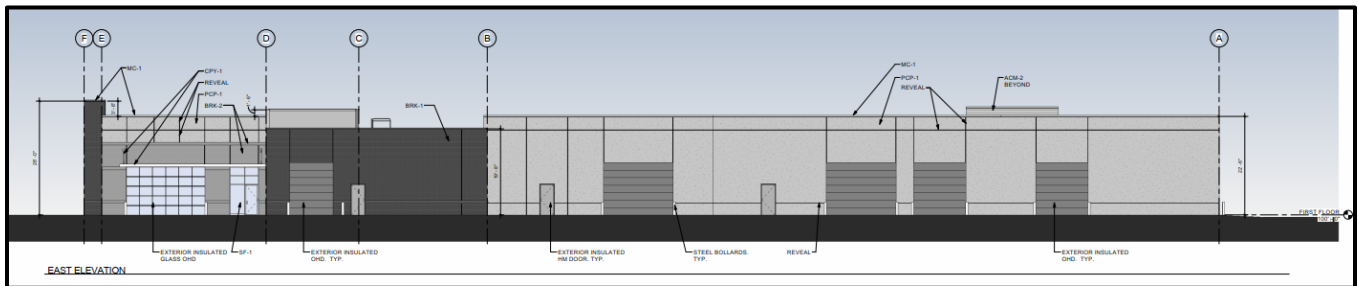


Figure 6: East side elevation facing Long Road Crossing

Lighting

There are four different types of light fixtures proposed for this development which includes parking lights and wall pack lights. All of the proposed light fixtures comply with City code.

Rendering



Figure 9: Front View from North Outer 40 Road



Figure 10: Isometric View from south east corner

DEPARTMENTAL INPUT

Be advised, this project is under review by City Staff and will not proceed to the Planning Commission until all outstanding items have been addressed, and Amended Site Development Concept Plan is approved. All recommendations made by the ARB will be included in Staff’s report to the Planning Commission.

MOTION

The following options are provided to the Architectural Review Board for consideration relative to this application:

- 1) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, and Architectural Elevations for Long Road Crossing Lot B-2, as presented, with a recommendation for approval (or denial)."
- 2) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, and Architectural Elevations for Long Road Crossing Lot B-2, with a recommendation for approval with the following conditions..."

Attachments

1. Architectural Review Packet Submittal



GRAY DESIGN GROUP
9 Sunnen Drive, Suite 110, Saint Louis, MO 63143

P 314 646 0400 | F 314 646 0100
info@GRAYDESIGNGROUP.COM

Architectural Review Board
City of Chesterfield Planning Department
690 Chesterfield Parkway West
Chesterfield, MO 63005

April 29, 2024

City of Chesterfield Planning Department:

We are pleased to submit this statement of design to accompany elevations, renderings, site plan, photometric and landscape plans as required to communicate the design of the new proposed BStreet Collision Center at 714 Long Road Crossing Drive. Our intent is to address the pertinent requirements of Article 04 of the City Municipal Code through narrative below.

General Requirements for Site Design:

This new BStreet Collision Center is one of a small chain of auto body locations in the Midwest. The current owner, Bob and Norma Wiese, opened the doors in hopes to be the "premier post-collision service provider" for the region. The building is located on a 3.65-acre lot and will be a one story, approximate 28,468 GSF structure. The main building entry will face the West while drive-in doors face West, North, and East. Our building type, scale and site orientation is expected to be compatible with neighboring commercial developments for this area. Safe pedestrian movement is encouraged by a sidewalk along Long Road Crossing and North Trade Center Boulevard.

Circulation System and Access:

Bicycle parking is provided as shown on the Site plan and since few pedestrians are expected to interact with this facility, no sidewalks on the lot are proposed. Employee and public parking are provided on all sides of the building with service areas located in the back.

Topography:

The existing site is relatively flat and we have generally retained the natural slope and topography of the site. The site differs by 5'-0". Minimal grading is required to create stormwater channels.

Retaining Walls:

There is a retaining wall at the northeast portion of the parking area. This wall along with the building is used to transition the grade from the north to the south. The low wall is built with Concrete Masonry units painted to match the color of the building.

Building Scale:

This one-story building has an average wall elevation of 22'-6". This height falls within the allowable height and story limitations for this zoning ordinance and is generally consistent with adjacent commercial buildings.

Human Scale:

The building achieves a sense of human scale by varying height tilt-up panels and recessed faces all to provide relief in the façade.

Generic Scale:

The window lines, horizontal and vertical reveals, paint, Canopy, and horizontal elements indicating a base, middle, and cornice to the façade help to break down the scale.

Design:

The building tilt-up panels are articulated with a palette of neutral paint colors with a sandblasted finish divided by architectural reveals on all four sides. Thin Brick with horizontal patterns is applied on three sides of the building near pedestrian areas. While the building is intended to incorporate subtle design influences from the BStreet stores, the design is not perceived as a corporate or franchise design intended as advertising. Perimeter wall panels will extend above the roof edges to effectively screen mechanical units in addition to metal screens. No mechanical units will be located on the ground.

Materials and Colors:

Color choices as shown on the elevations will be compatible with other buildings in Chesterfield and will not be highly reflective. The building will not be pre-fabricated and will be fully built on site.

Landscape Design and Screening:

Positioned on or near two public streets, the most prominent landscape element of this site will be the Street Trees located along Long Road Crossing. These trees will provide both vertical structure as well as shade for the public's views of the facility and the pedestrian users of the sidewalks. Care has been taken to site these trees to respect sight triangles at entrances, utilities and storm drainage facilities. Vehicular entrances and associated signs have been landscaped with ornamental trees, shrubs and perennials to emphasize and highlight these entrances.

Tree plantings in the parking lots are provided to allow each parking space to be within 50' of a tree. These trees will provide shade and help "break down" the scale of the parking lots.

Low shrub plantings have been located on the main entrance (west) side to provide landscape interest for the employees and guests. Larger shrub and small tree plantings are situated at the southwest corners of the building to anchor and frame the views of the building.

The areas between the street and the parking and drives have been landscaped with lawns and a combination of evergreen trees, ornamental trees and shrubs. The informal design of these groupings softens the visual appearance of the linear parking and building elements.

Evergreen plantings (tree and shrubs) have been utilized to shield and screen views to the service areas on the east side of the building.

On the eastern edge of the property, a bioretention basin will be planted with MSD approved trees, shrubs, forbs and grasses to provide the water quality requirements for this project.

All areas of the site will be provided with an automatic underground irrigation system.

Signage:

Signs will be submitted through a separate process at a later date and will adhere to the UDC. Signs are shown for reference only.

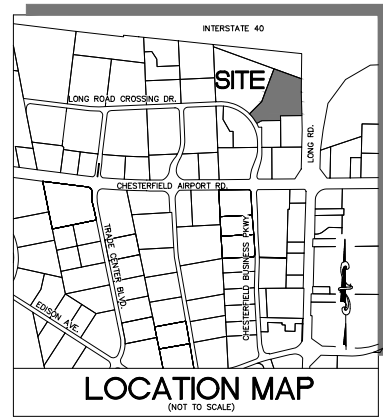
Lighting:

Please refer to the attached Photometric Plans for light specifications and footcandle map.

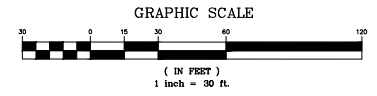
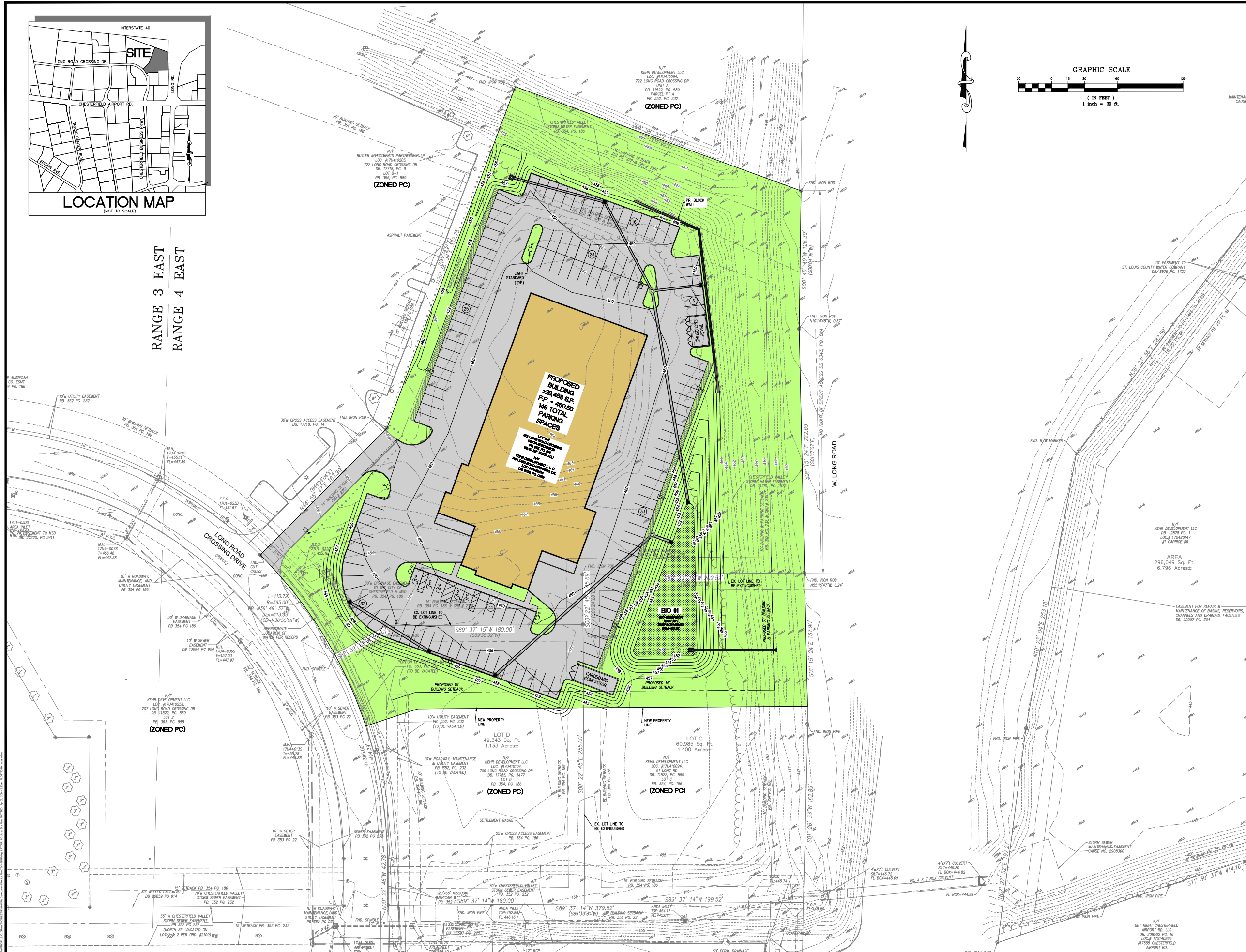
Sincerely,

Edward L. Garozzo

Ed Garozzo, Assoc. AIA
Project Manager
TH/lh



RANGE 3 EAST
RANGE 4 EAST



257 Chestersfield Business Parkway
St. Louis, MO 63103
314-991-1100 FAX 314-991-1101
e-mail: general@stockandassociates.com
Web: www.stockandassociates.com

STOCK & ASSOCIATES
Consulting Engineers, Inc.

SITE DEVELOPMENT SECTION PLAN FOR:
B STREET COLLISION CENTER
714 LONG ROAD CROSSING DR.
CHESTERSFIELD, MISSOURI 63005

STATE OF MISSOURI
ENGINEER
NUMBER: PE-25114
04/05/2024

GEORGE M. STOCK E-25116
CIVIL ENGINEER
CERTIFICATE OF AUTHORITY
NUMBER: 000996

| REVISIONS: | |
|------------|----------------------|
| 1 | 4/5/24 DESUBMITAL #1 |

| | | | |
|-----------------------------------|------------|---------------|-----------|
| DRAWN BY: | CFG | CHECKED BY: | G.M.S. |
| DATE: | 04-05-2024 | JOB NO: | 2023-1543 |
| W.S.D. #: | | BASE MAP #: | 17-U |
| S.L.C. #: | | DATE SURV. #: | |
| REVISION #: | | | |
| SHEET TITLE: COLORED SITE PLAN | | | |
| SHEET NO.: 1 | | | |



BSTREET COLLISION CENTER, CHESTERFIELD

714 Long Road Crossing Drive
Chesterfield, MO 63005

3D VIEWS

124003.00

4/29/2024



gray



PHOTO A - VIEW NORTH



PHOTO B - VIEW NORTHEAST



PHOTO C - VIEW EAST



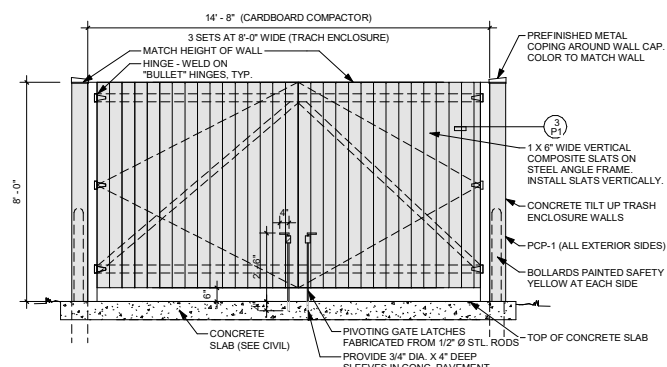
PHOTO D - VIEW SOUTH



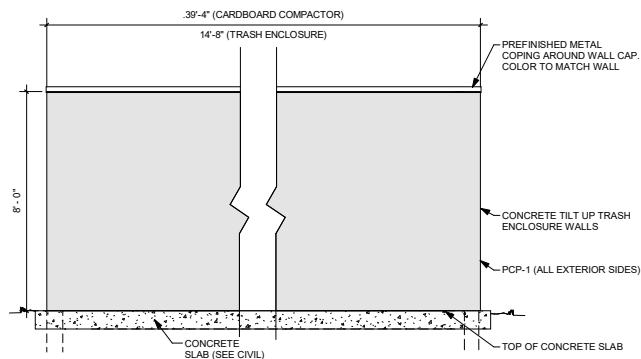
PHOTO E - VIEW SOUTHWEST



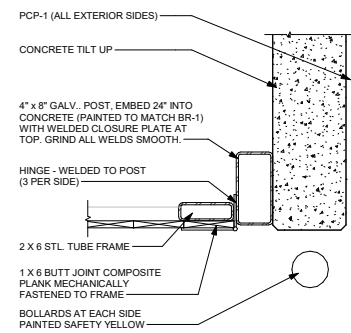
PHOTO F - VIEW WEST



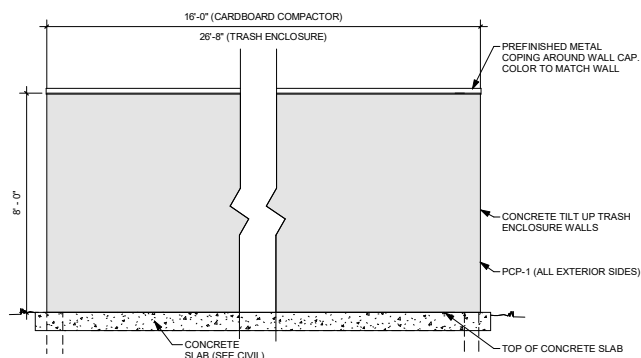
TRASH COMPACTOR & ENCLOSURE GATE



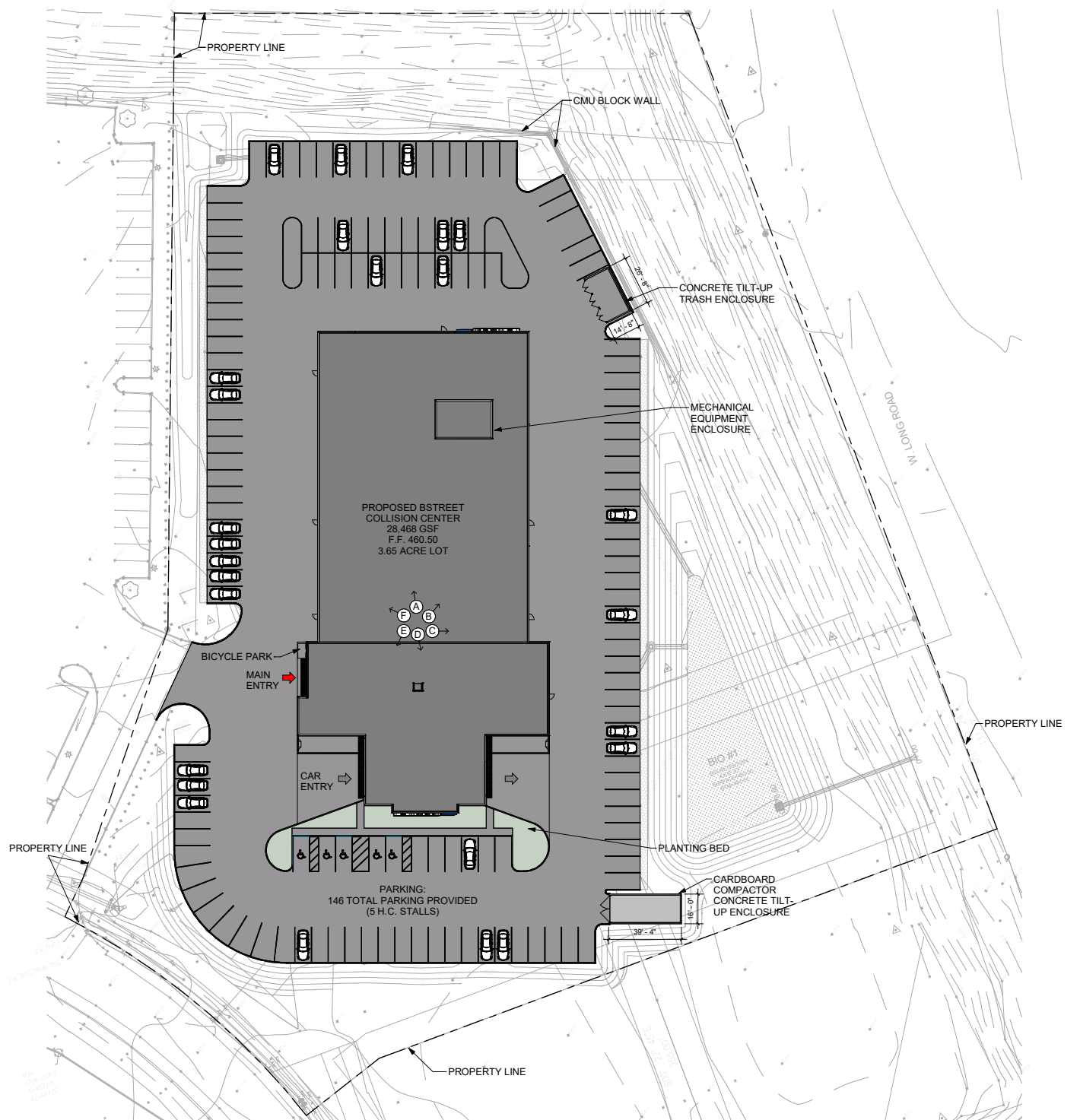
TRASH COMPACTOR & ENCLOSURE GATE SIDE ELEVATIONS



TRASH ENCLOSURE JAMB



TRASH COMPACTOR & ENCLOSURE GATE REAR ELEVATIONS



PARKING LIGHT FIXTURE

BSTREET COLLISION CENTER, CHESTERFIELD

714 Long Road Crossing Drive
Chesterfield, MO 63005

SITE PLAN, PHOTOS
& SCREEN
1"=30'-0"

124003.00

4/29/2024



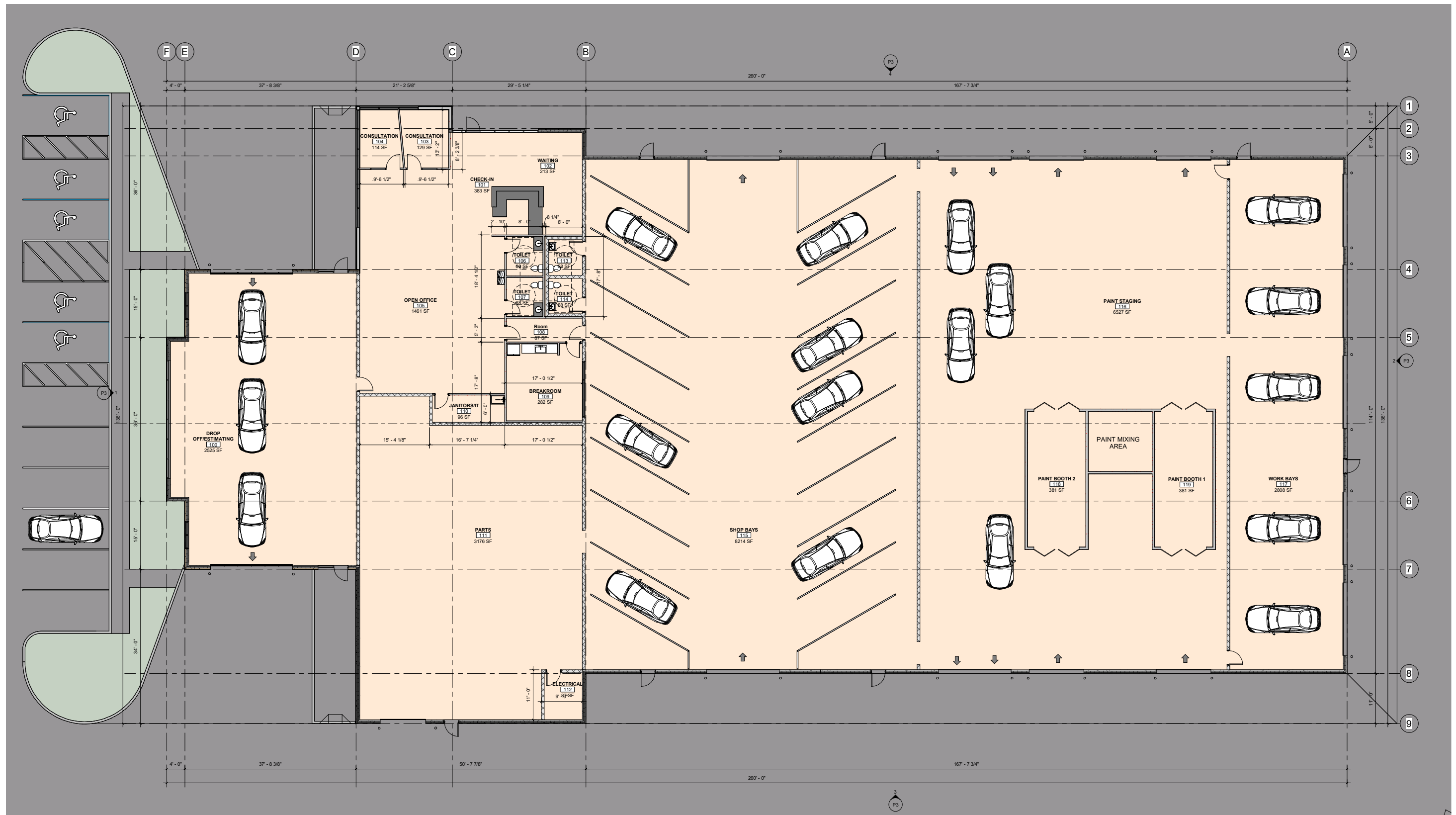
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TRUE NORTH



PLAN NORTH



BSTREET COLLISION CENTER, CHESTERFIELD

714 Long Road Crossing Drive
Chesterfield, MO 63005

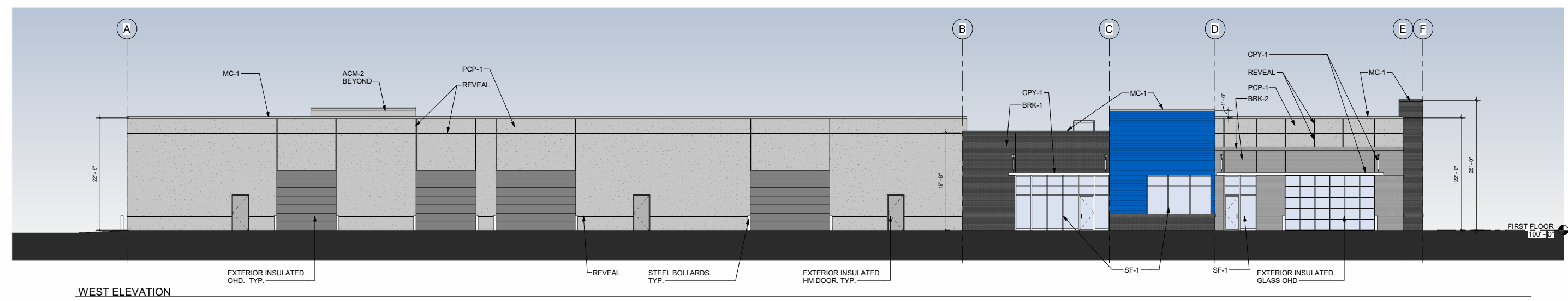
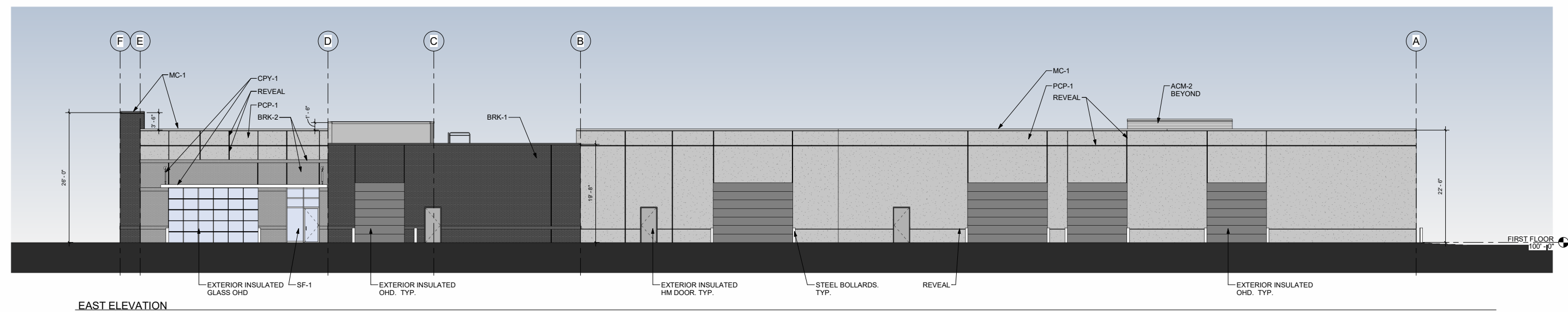
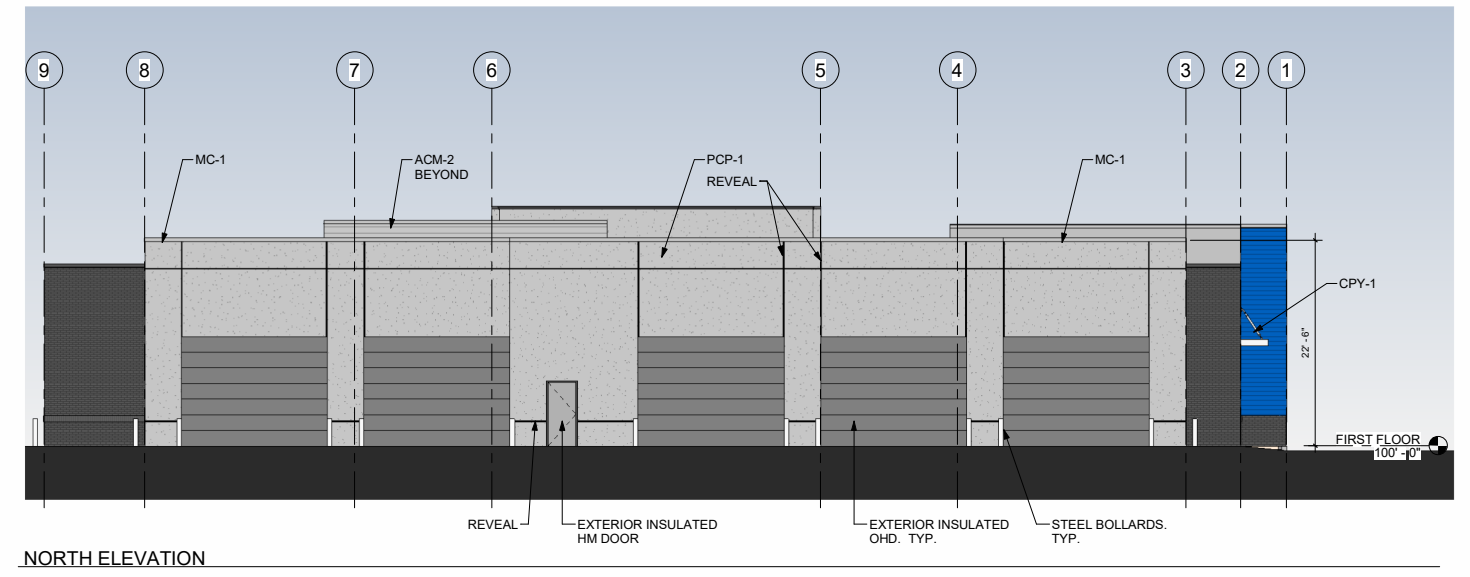
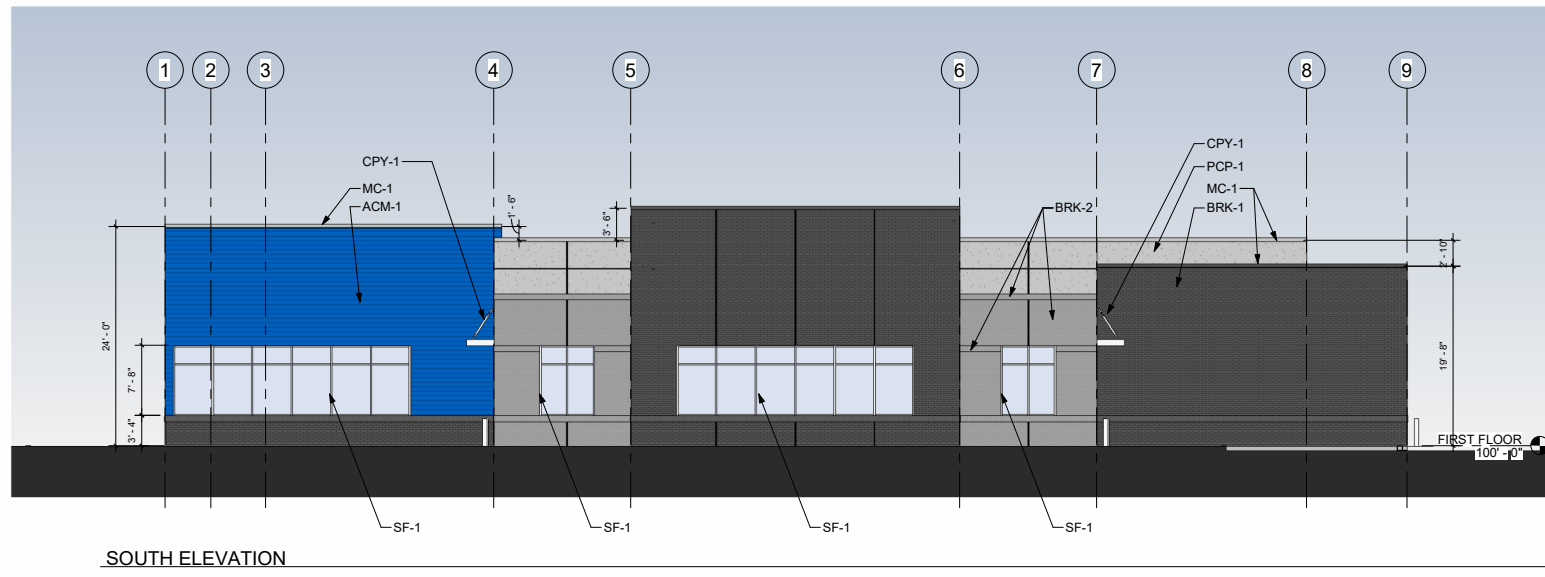
FLOOR PLAN
1/8"=1'-0"

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4/29/2024



gray



BSTREET COLLISION CENTER, CHESTERFIELD

714 Long Road Crossing Drive
Chesterfield, MO 63005

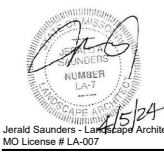
BUILDING
ELEVATIONS
1/8"=1'-0"

124003.00

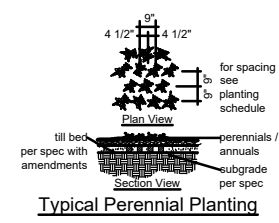
4/29/2024



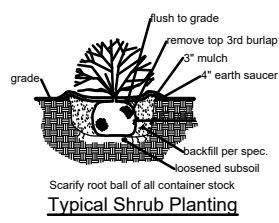
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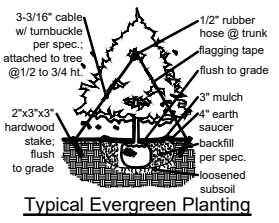
Consultants:



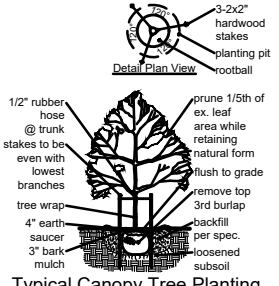
Typical Perennial Planting



Typical Shrub Planting



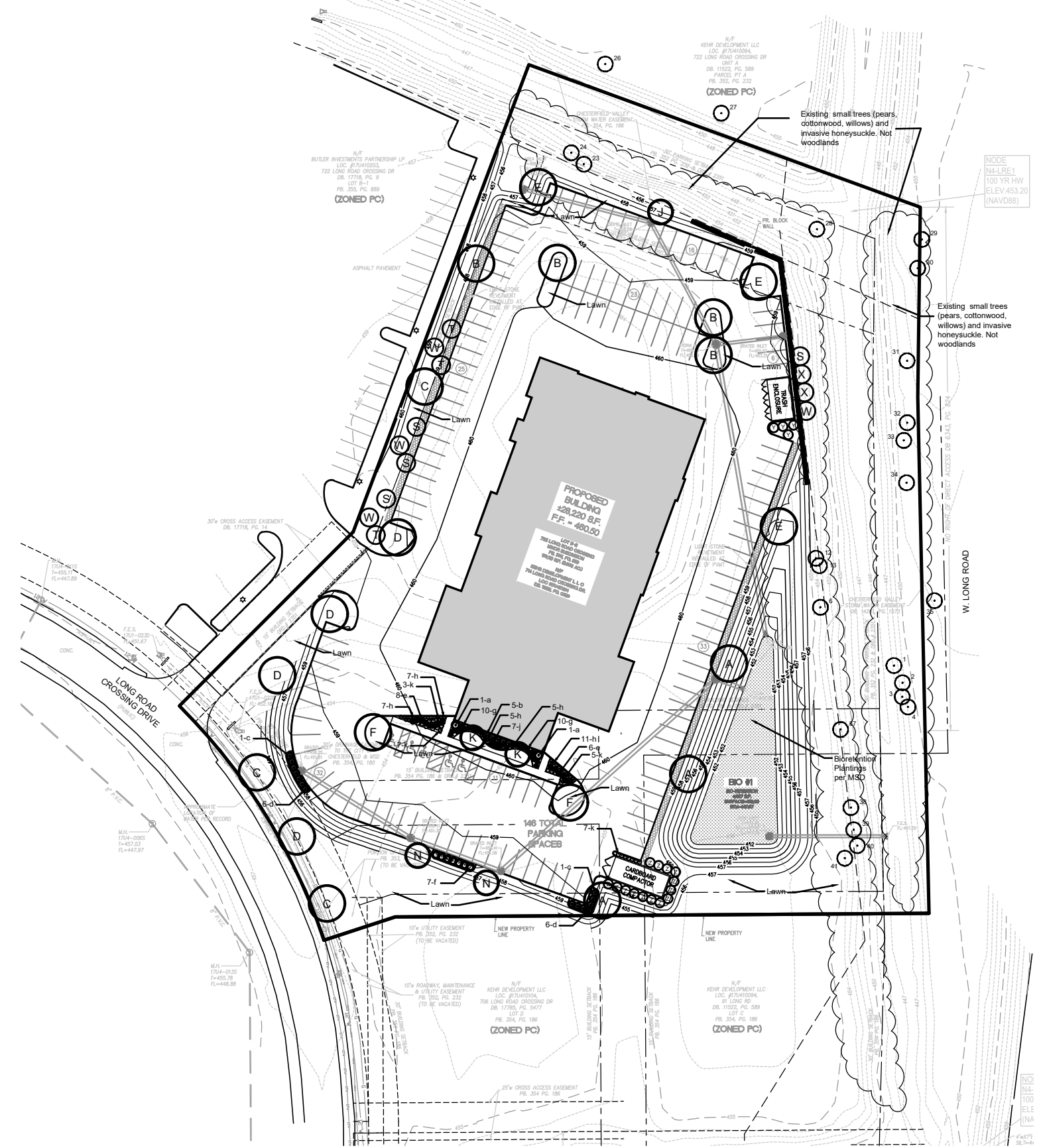
Typical Evergreen Planting



Typical Canopy Tree Planting

Landscape Notes:

- 1) All existing volunteer trees and vegetation to be removed at proposed grading locations.
- 2) Lawn areas shall be turf-type Tall Fescue Grass or approved equivalent.
- 3) Topsoil in all disturbed lawn areas at 6" depth.
- 4) Soil mix in all shrub beds at 8" depth.
- 5) All mulch to be double ground bark mulch.
- 6) Bed edges to be spade cut.
- 7) All landscaped areas, including islands, shall be provided with mechanical, in-ground irrigation system. Contractor to provide design-build drawings for review by Landscape Architect.



PLANTING SCHEDULE

| ID | QUANTITY | BOTANICAL NAME | COMMON NAME | SIZE | REMARKS | SIZE / GROWTH RATE | GROWTH RATE % |
|-----------------------------------|----------|----------------------------------|-------------------------|--------------|---------|--------------------|----------------|
| CANOPY-SHADE TREE | | | | | | | |
| A | 3 | Tilia cordata | Littleleaf Linden | 2.5" caliper | B & B | Lg/Slow-M | 5.45 % |
| B | 4 | Gleditsia triacanthos inermis | Honeylocust (thornless) | 2.5" caliper | B & B | Lg / Fast | |
| C | 3 | Quercus bicolor | Swamp White Oak | 2.5" caliper | B & B | Lg / Med | 5.45 % |
| D | 4 | Quercus rubra | Northern Red Oak | 2.5" caliper | B & B | Lg / M-Fast | |
| E | 3 | Acer saccharum | Sugar Maple | 2.5" caliper | B & B | Lg/Slow-M | 5.45 % |
| F | 2 | Acer x freemanni 'Jeffersred' | Autumn Blaze Maple | 2.5" caliper | B & B | Lg. / Fast | |
| UNDERSTORY-ORNAMENTAL TREE | | | | | | | |
| J | 1 | Magnolia x soulangiana | Saucer Magnolia | 2.5" caliper | B & B | M / Slow-M | 1.82 % |
| K | 2 | Amelanchier arborea | Serviceberry | 2.5" caliper | B & B | M / Slow-M | 3.64 % |
| N | 2 | Cercis canadensis | Redbud | 2.5" caliper | B & B | Med / Fast | |
| EVERGREEN TREE | | | | | | | |
| S | 4 | Pinus strobus | White Pine | 6' tall | B & B | Lg / Fast | |
| T | 3 | Picea pungens | Colorado Blue Spruce | 6' tall | B & B | Med / Med | 5.45 % |
| W | 4 | Picea glauca | White Spruce | 6' tall | B & B | Med / Med | 7.27 % |
| X | 2 | Ilex opaca | American Holly | 6' tall | B & B | Lg / Slow | 3.64 % |
| Y | 4 | Juniperus chinensis 'Blue Point' | Blue Point Juniper | 6' tall | B & B | Sm/Slow-M | 5.45 % |
| Z | 14 | Juniperus chinensis 'Keteleeri' | Keteleeri Juniper | 6' tall | B & B | Sm/Slow-M | 25.45 % |
| | | | | | | Total % | 69.07 % |

| SHRUBS-ORNAMENTAL GRASSES-PERENNIALS-ANNUALS-GROUNDCOVER | | | | | | | |
|---|----|--------------------------------------|----------------------------------|-----|----------|--|--|
| a | 2 | Viburnum carlesii 'Diana' | Koreanspice Viburnum | 18" | 72" o.c. | | |
| b | 5 | Weigela 'Spilled Wine' | Spilled Wine Weigela | 18" | 48" o.c. | | |
| c | 2 | Ilex x meserveae 'Mesdob' | China Boy Holly | 18" | 36" o.c. | | |
| d | 12 | Ilex x mesereae 'Mesog' | China Girl Holly | 18" | 36" o.c. | | |
| e | 14 | Buxus x 'GreenVelvet' | Green Velvet Boxwood | 18" | 36" o.c. | | |
| f | 7 | Juniperus x pfitzeriana 'Gold Coast' | Gold Coast Juniper | 18" | 36" o.c. | | |
| g | 20 | Juniperus horizontalis 'Youngstown' | Youngstown Andorra Juniper | 12" | 36" o.c. | | |
| h | 35 | Sporobolus heterolepis | Prairie Dropseed | 12" | 36" o.c. | | |
| j | 7 | Aronia melanocarpa 'UCONNAM012' | Ground Hug Chokeberry | 12" | 36" o.c. | | |
| k | 15 | Calamagrostis acutiflora | Karl Foerster Feather Reed Grass | 12" | 36" o.c. | | |

**Site Development Section Plan
B Street Collision**
714 Long Road Crossing Drive
Chesterfield, MO 63005

Revisions:

| Date | Description | No. |
|------|-------------|-----|
| | | |
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Drawn: RS
Checked: LH



Sheet Title: Landscape Plan
Sheet No: L1.01
Date: 4/5/24
Job #: 813.137

Landscape Plan
SCALE 1"=30'





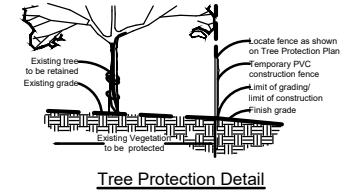
Jerald Saunders - Landscape Architect
MO License # LA-007

Consultants:

EXISTING TREE SCHEDULE:

| Tree ID | Common Name | DBH | Condition | Comment | Preserved | To Be Removed |
|---------|---------------|-----|-----------|---------|-----------|---------------|
| 1 | Cottonwood | 10 | Fair | | X | |
| 2 | Cottonwood | 10 | Fair | | X | |
| 3 | Cottonwood | 8 | Fair | | X | |
| 4 | Cottonwood | 9 | Fair | | X | |
| 5 | American elm | 10 | Fair | | | X |
| 6 | Red mulberry | 7 | Fair | | X | |
| 7 | Cottonwood | 7 | Fair | | | X |
| 8 | Cottonwood | 7 | Fair | | X | |
| 9 | Cottonwood | 7 | Fair | | X | |
| 10 | Cottonwood | 7 | Fair | | X | |
| 11 | Cottonwood | 6 | Fair | | X | |
| 12 | Boxelder | 7 | Fair | | X | |
| 13 | Boxelder | 7 | Fair | | X | |
| 14 | Boxelder | 7 | Fair | | X | |
| 15 | Cottonwood | 18 | Fair | | X | |
| 16 | American elm | 9 | Poor | | X | |
| 17 | Boxelder | 7 | Poor | | X | |
| 18 | Cottonwood | 16 | Fair | | X | |
| 19 | Cottonwood | 7 | Fair | | X | |
| 20 | Cottonwood | 8 | Fair | | X | |
| 21 | Cottonwood | 8 | Fair | | X | |
| 22 | Cottonwood | 7 | Fair | | X | X |
| 23 | Cottonwood | 16 | Fair | | X | |
| 24 | Cottonwood | 16 | Fair | | X | |
| 25 | Cottonwood | 12 | Fair | | X | X |
| 26 | Cottonwood | 10 | Fair | Offsite | X | |
| 27 | Bradford pear | 7 | Fair | Offsite | X | |
| 28 | Willow | 6 | Fair | | X | |
| 29 | Bradford pear | 7 | Fair | | X | |
| 30 | Bradford pear | 6 | Fair | | X | |
| 31 | Bradford pear | 6 | Fair | | X | |
| 32 | Bradford pear | 6 | Fair | | X | |
| 33 | Bradford pear | 6 | Fair | | X | |
| 34 | Bradford pear | 8 | Poor | | X | |
| 35 | Green ash | 6 | Poor | | X | |
| 36 | American elm | 6 | Fair | Offsite | X | X |
| 37 | Red mulberry | 8 | Fair | | X | |
| 38 | Red mulberry | 6 | Fair | | X | |
| 39 | American elm | 6 | Poor | | X | |
| 40 | American elm | 7 | Poor | | X | |
| 41 | American elm | 7 | Poor | | X | |

- KEY**
- # EXISTING INDIVIDUAL TREE TO REMAIN
 - ⊗ # EXISTING INDIVIDUAL TREE TBR

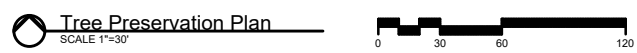
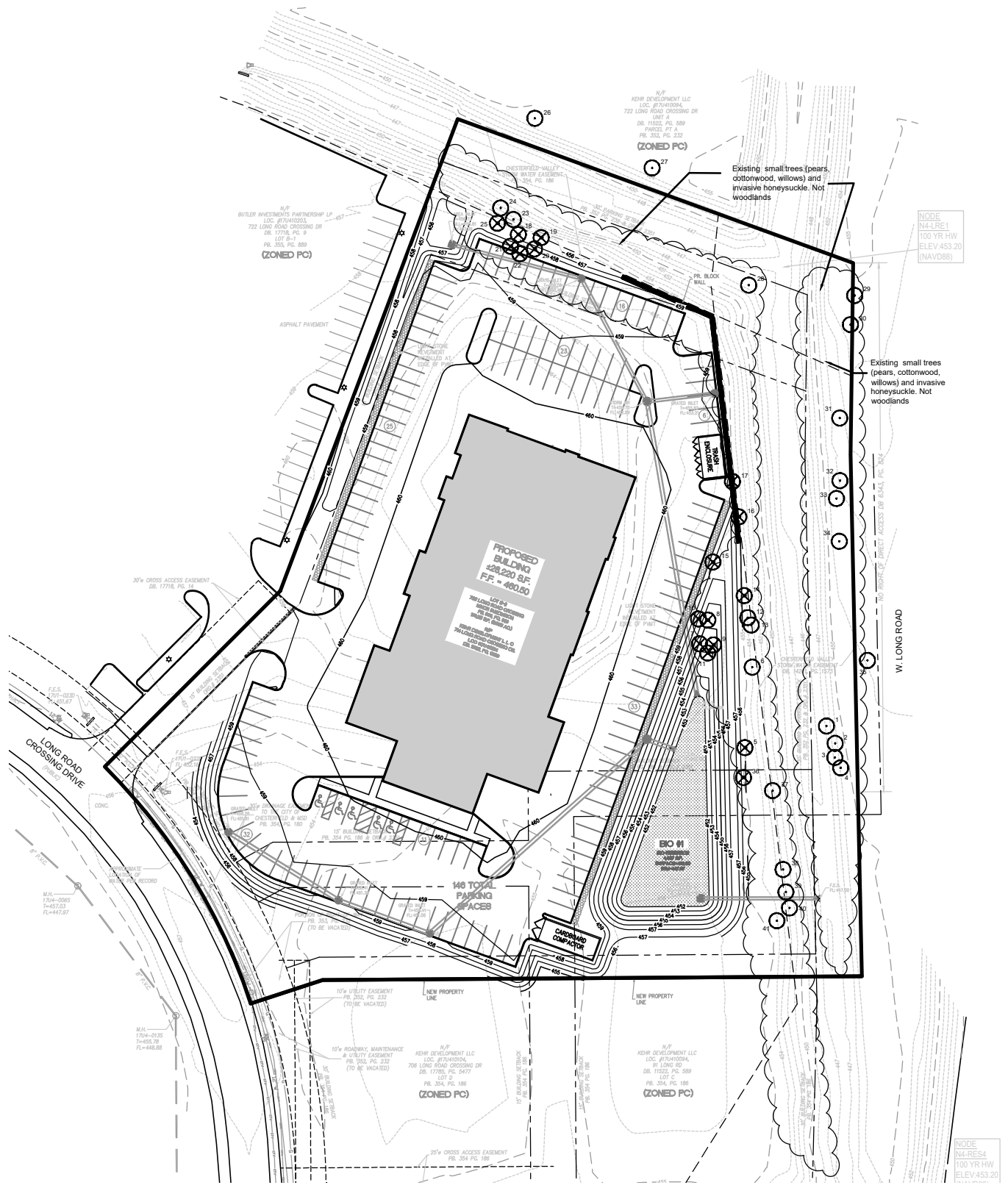


Tree Protection Notes:

- 1) Pre-construction meeting to be held on-site to include a presentation of tree protection measures to operators, construction supervisors, developer's representative, and city zoning inspector.
- 2) Clearing Limits to be rough staked in order to facilitate location for installation of protection fencing. No early maintenance schedule is required.
- 3) No clearing or grading shall begin in areas where the treatment and preservation measures have not been completed, including the installation of tree protection fencing as shown on the plan. Where necessary, Contractor may perform minor tree clearing prior to installing silt fencing and tree protection fencing provided they maintain tree protection area.
- 4) Tree Protection Fencing shall be 4-foot high temporary plastic construction fence. No equipment trafficking, parking, concrete washout, material storage or other such construction activity shall be permitted to penetrate the protection fencing or disrupt the Protected Woodland Area except for the removal of dead or invasive plant material. All ground plane in planting areas shall be mulched with hardwood bark mulch. Tree Protection Signage will be placed along the Protection Fencing as shown as the dashed line on the plan.
- 5) Tree protection measures to be maintained throughout construction sequence.

Tree Protection Action Key Sequence:

- 1) Survey limit of disturbance.
- 2) Perform root pruning.
- 3) Install tree protection fencing.
- 4) Post tree protection signage on fence (No signs will be posted on trees).
- 5) Maintain tree protection area as an off-limits zone.

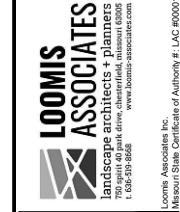


**Site Development Section Plan
B Street Collision**
714 Long Road Crossing Drive
Chesterfield, MO 63005

Revisions:

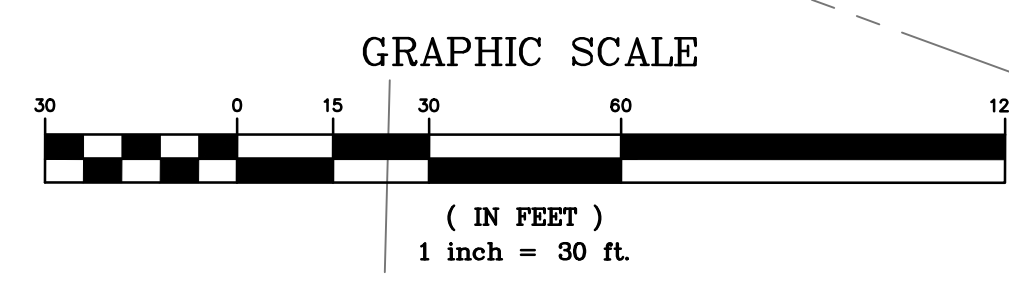
| Date | Description | No. |
|------|-------------|-----|
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| | | |

Drawn: RS
Checked: LH



Sheet Title: Tree Preservation Plan
Sheet No: TPP

Date: 4/5/24
Job #: 819.137

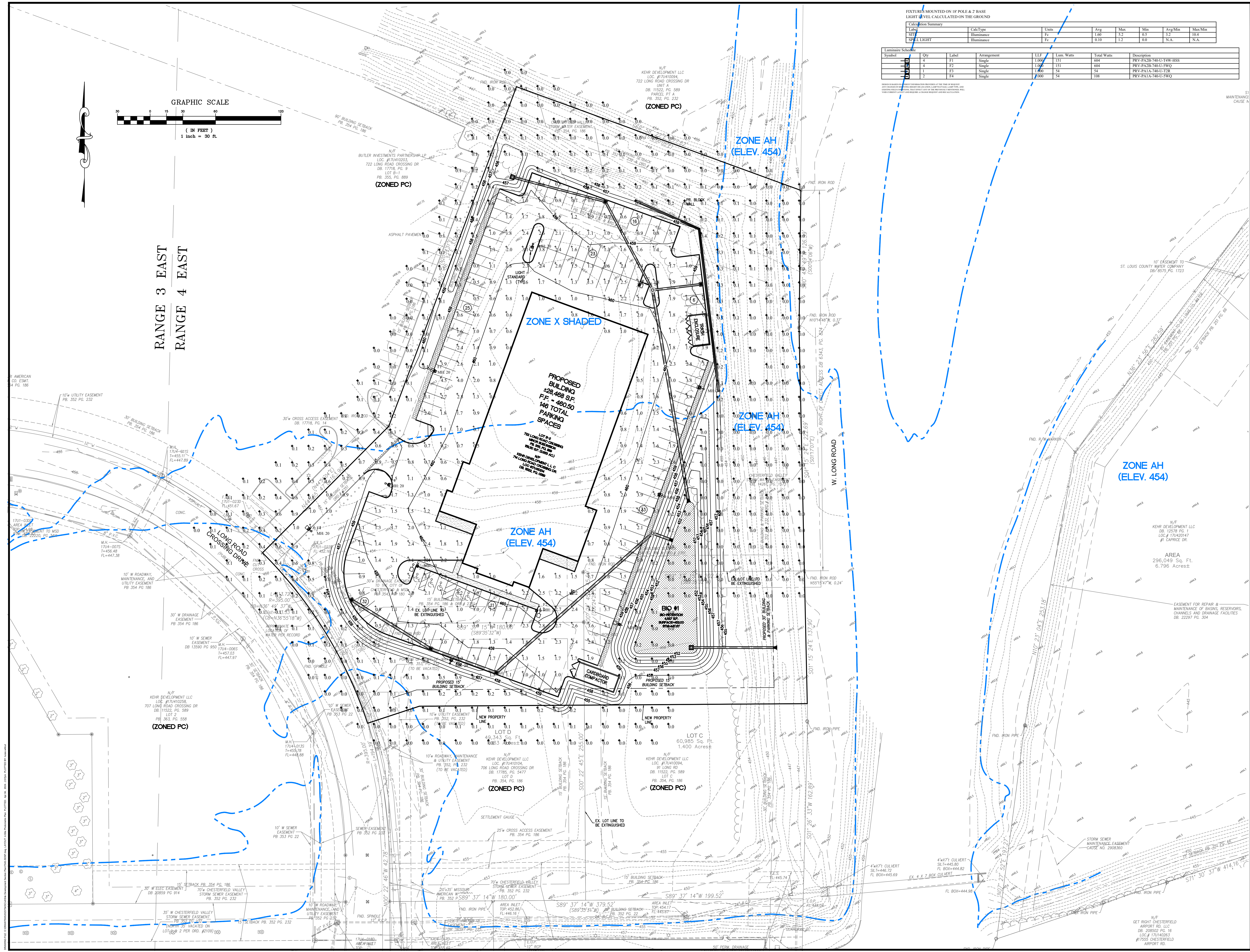


RANGE 3 EAST
RANGE 4 EAST

FIXTURES MOUNTED ON 18' POLE & 2' BASE
LIGHT LEVEL CALCULATED ON THE GROUND

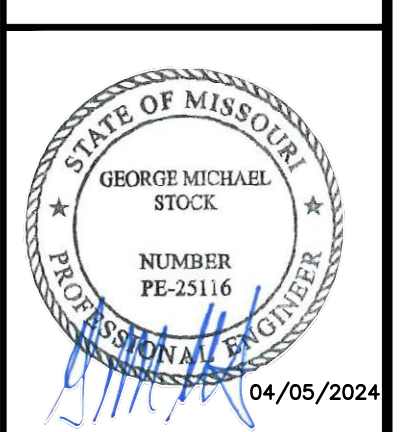
| Calculation Summary | Units | Avg | Max | Min | Avg/Min | Max/Min |
|---------------------|----------|-------|-------|-------|---------|---------|
| Label | CalcType | Units | Units | Units | Units | Units |
| ILLUM | ILLUM | Fc | 1.60 | 5.2 | 0.5 | 3.2 |
| SPILT LIGHT | ILLUM | Fc | 0.10 | 1.2 | 0.0 | 10.4 |

| Luminaire Schedule | Symbol | Qty | Label | Arrangement | LLF | Lum. Watts | Total Watts | Description |
|--------------------|--------|-----|-------|-------------|------|------------|-------------|-----------------------|
| 1 | F1 | 1 | F1 | Single | 1.00 | 151 | 151 | PRV-PA2B-740-U-TW-BSS |
| 2 | F2 | 1 | F2 | Single | 1.00 | 151 | 151 | PRV-PA2B-740-U-SWQ |
| 3 | F3 | 1 | F3 | Single | 1.00 | 54 | 54 | PRV-PA1A-740-U-TR |
| 4 | F4 | 1 | F4 | Single | 1.00 | 54 | 54 | PRV-PA1A-740-U-SWQ |



PREPARED BY:
STOCK & ASSOCIATES
Consulting Engineers, Inc.

SITE DEVELOPMENT SECTION PLAN FOR:
B STREET COLLISION CENTER
714 LONG ROAD CROSSING DR.
CHESTERFIELD, MISSOURI 63005



GEORGE M. STOCK E-25116
CIVIL ENGINEER
CERTIFICATE OF AUTHORITY
NUMBER: 000996

REVISIONS:
1 4/5/24 SUBMITTAL #1

| DATE | BY | DESCRIPTION |
|------------|--------|------------------|
| 04-05-2024 | G.M.S. | RAISE MAP # 17-U |
| | | HAT SUP. # |

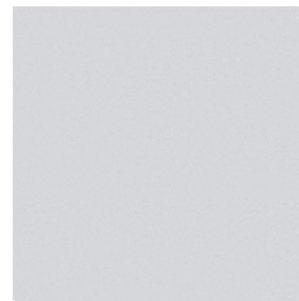
DRAWN BY: T.P.C. CHECKED BY: G.M.S.
DATE: 04-05-2024 JOB NO: 2023-7543
MAP # # RAISE MAP # 17-U
SLC HAT # HAT SUP. #
M.D.N.R. #
SHEET TITLE: SITE PHOTOMETRIC PLAN
SHEET NO: 4



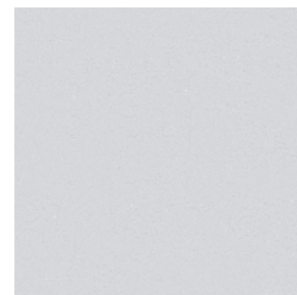
BRK-1



BRK-2



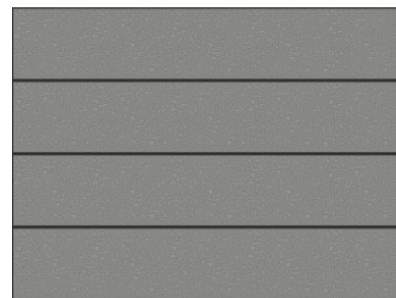
PCP-1



SF-1



ACM-1
MC-1



ACM-2
MC-1



LAWRENCE FABRIC &
METAL STRUCTURES



MAPES CANOPY

EXTERIOR MATERIALS LIST

- ACM-1 ALUMINUM COMPOSITE PANEL WALL SYSTEM
MANUFACTURER: ALPOLIC
COLOR: SHB BLUE
 - ACM-2 ALUMINUM COMPOSITE PANEL WALL SYSTEM
MANUFACTURER: ALPOLIC
COLOR: MICA MFS GRAY
 - BRK-1 THIN VENEER FACE BRICK CAST INTO INSULATED PRECAST PANEL
MANUFACTURER: INTERSTATE BRICK
COLOR: MIDNIGHT BLACK
TEXTURE: WIRECUT
 - BRK-2 THIN VENEER FACE BRICK CAST INTO INSULATED PRECAST PANEL
MANUFACTURER: INTERSTATE BRICK
COLOR: PLATINUM
TEXTURE: WIRECUT
 - MC-1 PREFINISHED METAL COPING AND SHEET METAL FLASHING
MANUFACTURER: BERRIDGE MFG.
COLOR: MATCH COLOR OF PANEL BELOW
 - PCP-1 INSULATED PRECAST CONCRETE PANEL (NON INSULATED AT THE TRASH AND CARBBD COMP)
MANUFACTURER: PAINT: SHERWIN-WILLIAMS
COLOR: SW7071
TEXTURE: SANDBLASTED
 - SF-1 ALUMINUM STOREFRONT SYSTEM
MANUFACTURER: KAWNEER TRI-FAB VERSAGLAZE 451-T
COLOR: CLEAR ANODIZED ALUMINUM
 - CPY-1 PREFABRICATED OPEN OR CLOSED METAL CANOPY WITH TURNBUCKLES
MANUFACTURER: MAPES OR LAWRENCE FABRIC & METAL STRUCTURES CANOPY
COLOR: CLEAR ANODIZED ALUMINUM
- NOTE: ALL MATERIALS SUBJECT TO APPROVED EQUAL OR SUBSTITUTIONS AS DEVELOPMENT PROGRESSES.

| | | | | | |
|-------------|--|-----------|--|------|--|
| Project | | Catalog # | | Type | |
| Prepared by | | Notes | | Date | |



Lumark

Prevail Discrete LED

Area / Site Luminaire

Product Features



Product Certifications



Interactive Menu

- Ordering Information [page 2](#)
- Mounting Details [page 3, 4](#)
- Optical Configurations [page 5](#)
- Product Specifications [page 5](#)
- Energy and Performance Data [page 6, 7](#)
- Control Options [page 8](#)

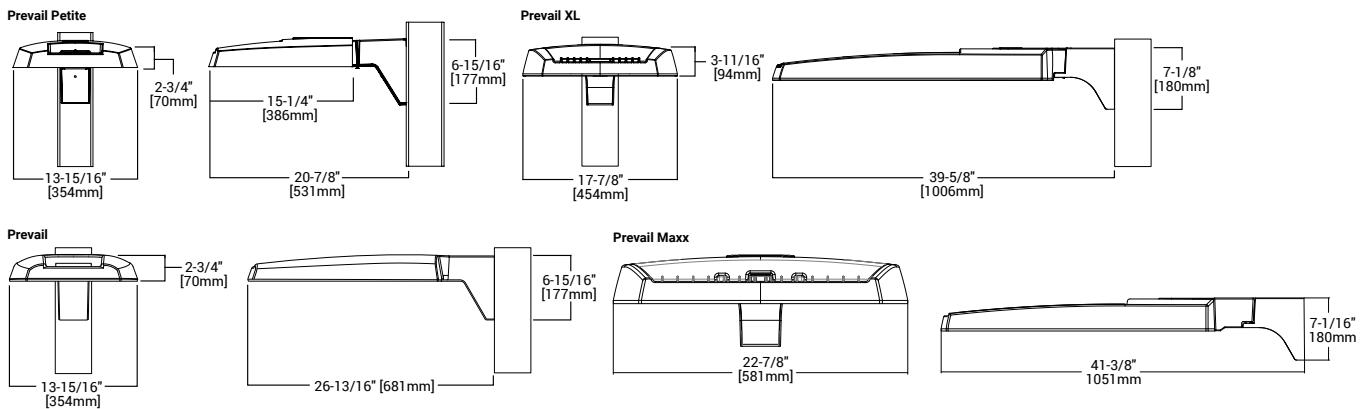
Quick Facts

- Direct-mounted discrete light engine for improved optical uniformity and visual comfort
- Lumen packages range from 4,300 - 68,000 nominal lumens (30W - 550W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 157 lumens per watt
- Standard universal quick mount arm with universal drill pattern

Connected Systems

- WaveLinX

Dimensional Details




NOTES:
 1. Visit <https://www.designlights.org/search/> to confirm qualification. Not all product variations are DLC qualified.
 2. IDA Certified for 3000K CCT and warmer only.

Ordering Information

SAMPLE NUMBER: PRV-XL-PA4B-740-U-T4W-BZ

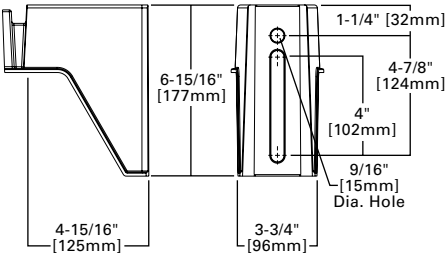
| Product Family ^{1,2} | Light Engine | | Color Temperature | Voltage | Distribution | Mounting (Included) | Finish | | |
|--|--|--|---|--|--|---|--|--|--|
| | Configuration | Drive Current ⁴ | | | | | | | |
| PRV-P =Prevail Petite BAA-PRV-P =Prevail Petite BAA Buy American Act Compliant ³ TAA-PRV-P =Prevail Petite TAA Trade Agreements Act Compliant ³ | PA1 =1 Panel, 24 LED Rectangle | A =400mA Nominal B =700mA Nominal C =950mA Nominal D =1200mA Nominal | 740 =70CRI, 4000K 730 =70CRI, 3000K 750 =70CRI, 5000K 8540 =85CRI, 4000K | U =Universal, 120-277V H =High Voltage, 347-480V 1=120V 2=208V 3=240V 4=277V 8=480V ⁵ 9=347V DV =DuraVolt, 277-480V ^{5,6} | T2R =Type II Roadway T2U =Type II Urban T3 =Type III T4W =Type IV Wide 5WQ =Type V Square Wide | SA =QM Standard Versatile Arm MA =QM Mast Arm FMA =Fixed Mast Arm ²⁷ WM =QM Wall Mount Arm ADJA-WM = Adjustable Arm - Wall Mount ²⁹ ADJA =Adjustable Arm - Pole Mount ²⁹ ADJS =Adjustable Arm - Slipfitter, 3" vertical tenon ²⁹ SP2 =Adjustable Arm - Slipfitter, 2 3/8" vertical tenon ^{27, 29} | AP =Grey BZ =Bronze BK =Black DP =Dark Platinum GM =Graphite Metallic WH =White | | |
| PRV =Prevail BAA-PRV =Prevail BAA Buy American Act Compliant ³ TAA-PRV =Prevail TAA Trade Agreements Act Compliant ³ | PA1 =1 Panel, 24 LED Rectangle PA2 =2 Panels, 48 LED Rectangles | A =700mA Nominal B =950mA Nominal | | | | | | | |
| PRV-XL =PRV XL BAA-PRV-XL =Prevail XL BAA Buy American Act Compliant ³ TAA-PRV-XL =Prevail XL TAA Trade Agreements Act Compliant ³ | PA3 =3 Panels, 72 LED Rectangles PA4 =4 Panels, 96 LED Rectangles | A =750mA Nominal B =950mA Nominal | | | | | | | |
| PRV-M =Prevail Maxx BAA-PRV-M =Prevail Maxx BAA Buy American Act Compliant ³ TAA-PRV-M =Prevail Maxx TAA Trade Agreements Act Compliant ³ | PA6 = 6 Panels, 144 LED Rectangles | A =600mA Nominal B =800mA Nominal C =1000mA Nominal D =1200mA Nominal | | | | | | | |
| Options (Add as Suffix) | | | Accessories (Order Separately) ^{20, 21} | | | | | | |
| 10K =10kV UL 1449 Fused Surge Protective Device 20MSP =20kV MOV Surge Protective Device 20K =20kV UL 1449 Fused Surge Protective Device F =Single Fuse (Used with Voltages 120, 277 or 347V) FF =Double Fuse (Used with Voltages 208, 240 or 480V) FADC =Field Adjustable Dimming Controller ³⁰ L90 =Optics Rotated 90° Left R90 =Optics Rotated 90° Right CC =Coastal Construction finish ⁹ HSS =House Side Shield (Factory Installed) ⁷ HA =50°C High Ambient Temperature ⁸ PR =NEMA 3-PIN Twistlock Photocontrol Receptacle ¹⁰ PR7 =NEMA 7-PIN Twistlock Photocontrol Receptacle ¹⁰ MS/DIM-L08 =Motion Sensor for Dimming Operation, Up to 8' Mounting Height ^{11, 12, 13, 22} MS/DIM-L20 =Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ^{11, 12, 22} MS/DIM-L40 =Motion Sensor for Dimming Operation, 21' - 40' Mounting Height ^{11, 12, 13} SPB1 =Motion Sensor for Dimming Operation, BLE Interface, Up to 8' Mounting Height ^{11, 14, 22} SPB2 =Motion Sensor for Dimming Operation, BLE Interface, 8' - 20' Mounting Height ^{11, 14, 22, 28} SPB4 =Motion Sensor for Dimming Operation, BLE Interface, 21' - 40' Mounting Height ^{11, 14, 28} | | | WPS2XX =Wavelinx Pro, Dimming Motion, SR Driver and Daylight, WAC Programmable, 7' - 15' Mounting Height ^{11, 12, 15, 16, 17, 22} WPS4XX =Wavelinx Pro, Dimming Motion, SR Driver and Daylight, WAC Programmable, 15' - 40' Mounting Height ^{11, 12, 15, 16, 17, 22, 28} (See Table Below)=LumenSafe Integrated Network Security Camera ^{18, 19} | | PRVSA-XX =Standard Arm Mounting Kit ²² PRVMA-XX =Mast Arm Mounting Kit ²² PRVWM-XX =Wall Mount Kit ²² PRV-ADJA-XX =Adjustable Arm - Pole Mount Kit ²² PRV-ADJS-XX =Adjustable Arm - Slipfitter Kit ²² PRV-ADJA-WM-XX =Adjustable Arm - Wall Mount Kit ²² PRVXLSA-XX =Standard Arm Mounting Kit ²⁸ PRVXLMA-XX =Mast Arm Mounting Kit ²⁸ PRVXLWM-XX =Wall Mount Kit ²⁸ PRV-XL-ADJA-XX =Adjustable Arm - Pole Mount Kit ²⁸ PRV-XL-ADJA-WM-XX = Adjustable Arm - Wall Mount Kit ²⁸ PRV-XL-ADJS-XX = Adjustable Arm - Slipfitter Kit ²⁸ PRV-M-ADJA-XX =Adjustable Arm - Pole Mount Kit ²⁷ PRV-M-ADJS-XX =Adjustable Arm - Slipfitter Kit ²⁷ PRV-M-ADJA-WM-XX =Adjustable Arm - Wall Mount Kit ²⁷ MA1010-XX =Single Tenon Adapter for 3-1/2" O.D. Tenon MA1011-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon | | | MA1017-XX =Single Tenon Adapter for 2-3/8" O.D. Tenon MA1018-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon SRA238 =Tenon Adapter from 3" to 2-3/8" PRV/DIS-FDV =Full Drop Visor ²³ PRVXL/DIS-FDV =Full Drop Visor ¹⁸ HSS-VP =House Side Shield Kit, Vertical Panel ^{7, 24} HSS-HP =House Side Shield Kit, Horizontal Panel ^{7, 24} VGS-ARCH = Panel Drop Shield, Short VGL-ARCH = Panel Drop Shield, Long OA/RA1013 =Photocontrol Shorting Cap OA/RA1014 =NEMA Photocontrol - 120V OA/RA1016 =NEMA Photocontrol - Multi-Tap 105-285V OA/RA1201 =NEMA Photocontrol - 347V OA/RA1027 =NEMA Photocontrol - 480V FSIR-100 =Wireless Configuration Tool for Occupancy Sensor ²⁵ WOLC-7P-10A =WaveLinX Outdoor Control Module (7-PIN) ²⁴ WPS2-XX =WaveLinX Wireless Sensor, 7' - 15' Mounting Height ^{15, 16, 17, 22} WPS4-XX =WaveLinX Wireless Sensor, 15' - 40' Mounting Height ^{15, 16, 17, 22, 28} | |
| NOTES: 1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications. Refer to installation instructions and pole white paper WPS13001EN for additional support information. 3. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to www.designlights.org website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 4. Nominal drive currents shown here. For actual drive current by configuration, refer to Power and Lumens tables. 5. 480V not to be used with ungrounded or impedance grounded systems. 6. DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit www.signify.com/duravolt for more information. 7. House Side Shield not for use with 5WQ distribution. 8. Not available with PATD light engine in Petite housing (PRV-P). 9. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 10. If High Voltage (H) or DuraVolt (DV) is specified, use a photocontrol that matches the input voltage used. 11. Controls system is not available in combination with a photocontrol receptacle (PR or PR7) or another controls system (MS SPB). 12. Option not available with High Voltage (H) or DuraVolt (DV). Must specify Universal (U), 347V (9), or 480V (8) voltage. 13. Utilizes the Wattstopper sensor FSP-211. Sensor color white unless specified otherwise via PDR. To field-configure, order FSIR-100 accessory separately. 14. Utilizes the Wattstopper sensor FSP-3XX series. Sensor color determined by product finish. See Sensor Color Reference Table. Field-configures via mobile application. See Controls section for details. 15. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F). 16. In order for the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinX system and software and requires system components to be installed for operation. See website for more WaveLinX application information. 17. Replace XX with sensor color (WH, BZ or BK). 18. Only available in PRV-XL configurations. 19. Not available with High Voltage (H, DV, 8 or 9) or HA options. Consult LumenSafe system product pages for additional details and compatibility information. 20. Replace XX with paint color. 21. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 22. Not for use with PRV-XL or PRV-M configurations. 23. Only for use with PRV. Not applicable to PRV-M, PRV-XL, or PRV-P. 24. Must order one per optic/LED when ordering as a field-installable accessory (1, 2, 3, 4, or 6). Refer to House Side Shield reference table for details. 25. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information. 26. Requires 7-PIN NEMA twistlock photocontrol receptacle (PR7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS or LWR). Only for use at 120-347V. 27. Only available for PRV-M configurations. 28. Only for use with PRV-XL. 29. Fixed for PRV-M. 30. Cannot be used with PR7 or other motion response control options. | | | | | | | | | |

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

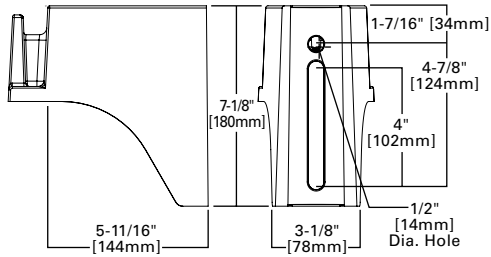
| Product Family | Camera Type | Data Backhaul |
|---|--|--|
| L =LumenSafe Technology  | H =Dome Camera, High Res Z =Dome Camera, Remote PTZ | C =Cellular, Customer Installed SIM Card A =Cellular, Factory Installed AT&T SIM Card V =Cellular, Factory Installed Verizon SIM Card S =Cellular, Factory Installed Sprint SIM Card E =Ethernet Networking |

Mounting Details

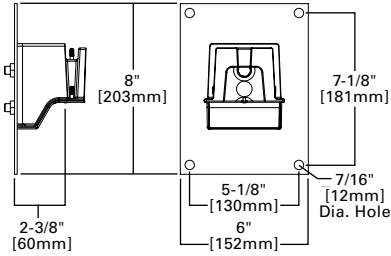
SA=QM Pole Mount Arm (PRV & PRV-P)



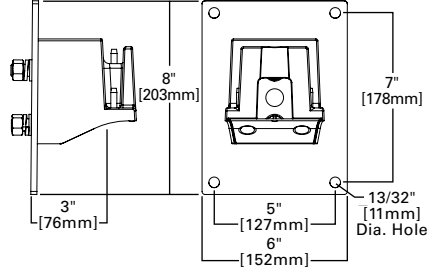
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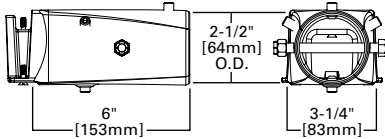
WM=QM Wall Mount Arm (PRV & PRV-P)



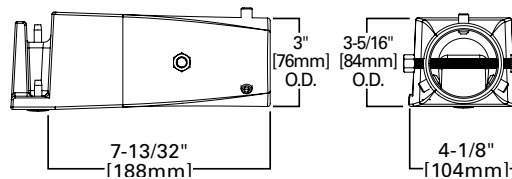
WM=QM Wall Mount Arm (PRV-XL)



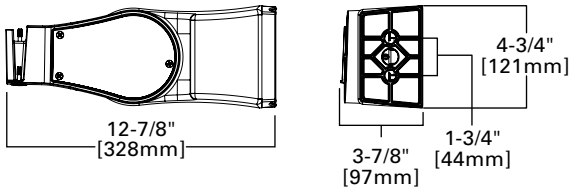
MA=QM Mast Arm (PRV & PRV-P)



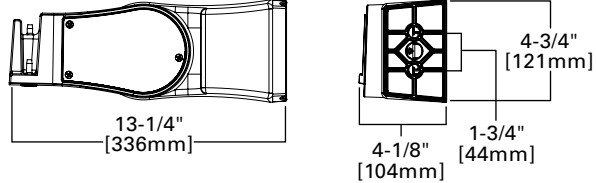
MA=QM Mast Arm (PRV-XL)



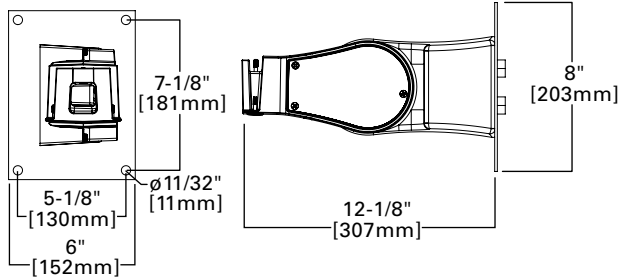
ADJA=Adjustable Arm Pole Mount (PRV & PRV-P)



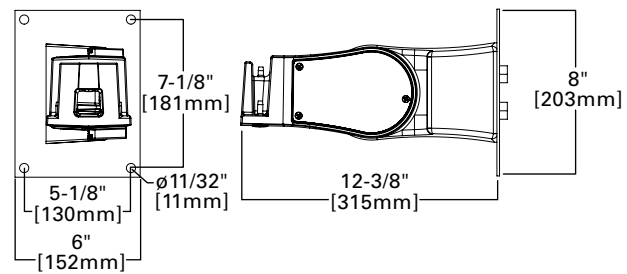
ADJA=Adjustable Arm Pole Mount (PRV-XL)



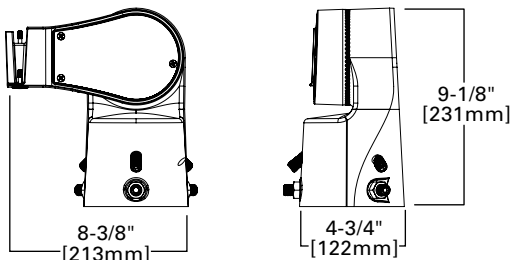
ADJA-WM=Adjustable Arm Wall Mount (PRV & PRV-P)



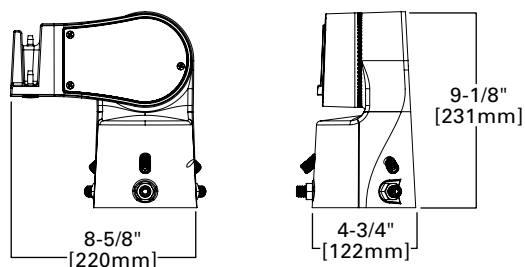
ADJA-WM=Adjustable Arm Wall Mount (PRV-XL)



ADJS=Adjustable Slipfitter 3 (PRV & PRV-P)

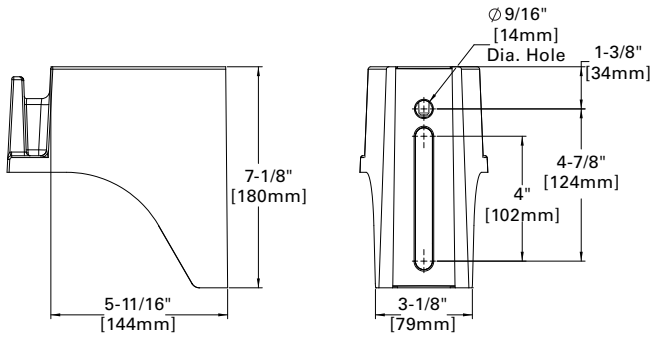


ADJS=Adjustable Slipfitter 3 (PRV-XL)

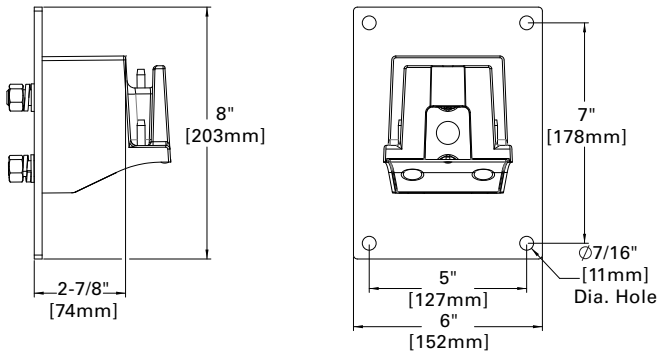


Mounting Details

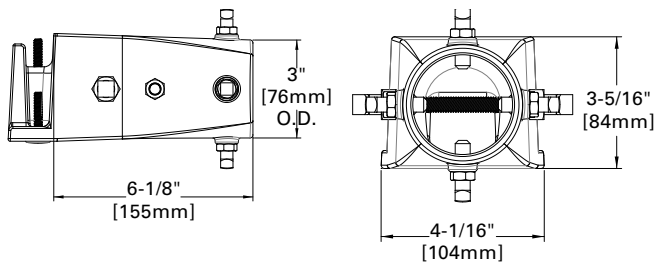
SA=QM Pole Mount Arm (PRV-M)



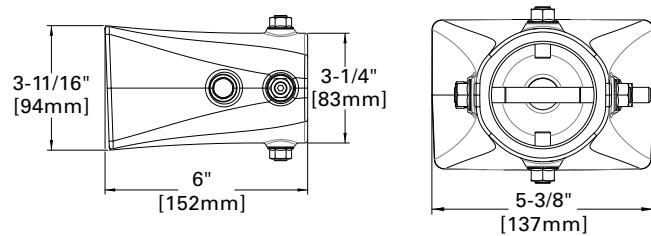
WM=QM Wall Mount Arm (PRV-M)



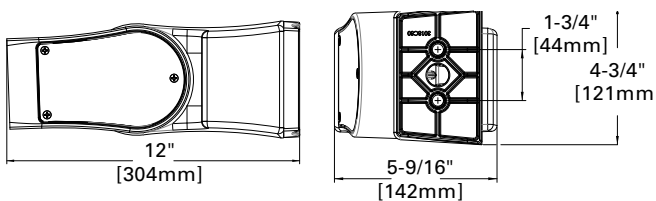
MA=QM Mast Arm (PRV-M)



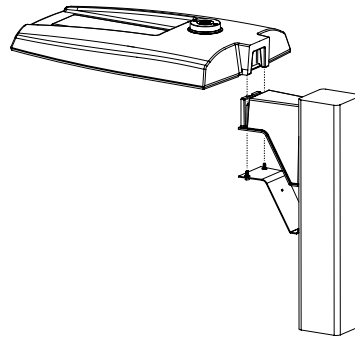
FMA=Fixed Mast Arm (PRV-M)



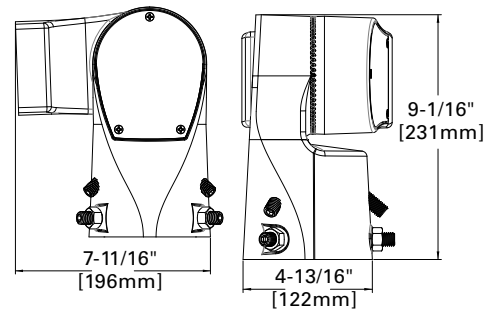
ADJA=Adjustable Pole Mount Arm (PRV-M)



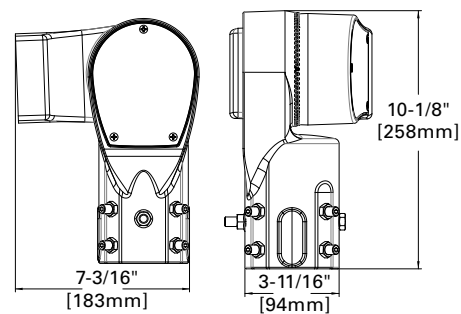
Versatile Mount System



ADJS=Adjustable Slipfitter (PRV-M)



SP2=Adjustable Slipfitter 2-3/8\" (PRV-M)



Mounting Details

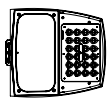
Mounting Configurations and EPAs

NOTE: For 2 PRV's mounted at 90°, requires minimum 3" square or 4" round pole for fixture clearance. For 2 PRV-XL's mounted at 90°, requires minimum 4" square or round pole for fixture clearance. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications

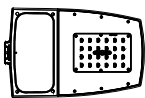
| Housing Size | Tilt Angle (Degrees) | Arm Mount Single | Arm Mount 2 @ 180° | Arm Mount 2 @ 90° | Arm Mount 3 @ 90° | Arm Mount 4 @ 90° |
|----------------|-----------------------|------------------|--------------------|-------------------|-------------------|-------------------|
| Prevail Petite | 0° | 0.54 | 1.08 | 0.84 | 1.38 | 1.38 |
| | 60° | 1.68 | 1.85 | 2.42 | 3.15 | 3.30 |
| Prevail | 0° | 0.92 | 1.35 | 1.42 | 1.63 | 1.63 |
| | 60° | 2.20 | 2.40 | 3.05 | 3.88 | 4.07 |
| | 60° + Full Drop Visor | 2.20 | 2.40 | 3.25 | 4.28 | 4.47 |
| Prevail XL | 0° | 1.12 | 2.25 | 2.13 | 2.52 | 2.52 |
| | 60° | 3.99 | 4.30 | 5.26 | 6.51 | 6.79 |
| | 60° + Full Drop Visor | 3.99 | 4.30 | 5.59 | 7.17 | 7.49 |
| Prevail Maxx | 0° | 1.28 | 2.56 | 1.7 | 2.69 | 2.69 |
| | 60° | 5.09 | 5.52 | 6.34 | 7.49 | 7.81 |

Optical Configurations

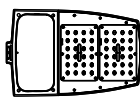
PRV-P-PA1X



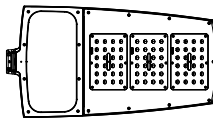
PRV-PA1X



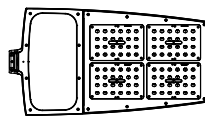
PRV-PA2X



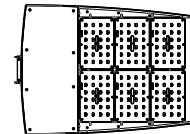
PRV-XL-PA3X



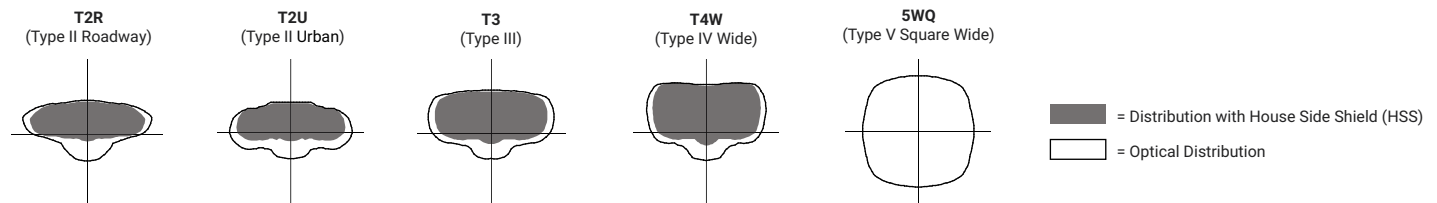
PRV-XL-PA4X



PRV-M-PA6X



Optical Distributions



Product Specifications

Construction

- Single-piece die-cast aluminum housing
- Tethered die-cast aluminum door

Optics

- Dark Sky Approved (3000K CCT and warmer only)
- Precision molded polycarbonate optics

Electrical

- -40°C minimum operating temperature
- 40°C maximum operating temperature
- >.9 power factor
- <20% total harmonic distortion
- Class 1 electronic drivers have expected life of 100,000 hours with <1% failure rate
- 0-10V dimming driver is standard with leads external to the fixture
- Standard MOV surge protective device designed to withstand 10kV of transient line surge

- Luminaire available with the field adjustable dimming controller (FADC) to manually adjust wattage and reduce the total lumen output and light levels; Comes pre-set to the highest position at the lumen output selected

Mounting

- Versatile, patented, standard mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8" (Type M drilling recommended for new installations)
- A knock-out on the standard mounting arm enables round pole mounting
- Adjustable pole and wall mount arms adjust in 5° increments from 0° to 60°; Downward facing orientation only (Type N drilling required for ADJA mount)
- Adjustable slipfitter arm adjusts in 5° increments from -5° to 85°; Downward facing orientation only
- Prevail and Prevail Petite: 3G vibration rated (all arms)
- Prevail XL Mast Arm: 3G vibration rated

- Prevail XL Standard Arm: 1.5G vibration rated
- Adjustable Arms: 1.5G vibration rated

Finish

- Five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Finish is compliant to 3,000 hour salt spray standard (per ASTM B117)

Typical Applications

- Parking lots, Walkways, Roadways and Building Areas

Shipping Data

- Prevail Petite: 18 lbs. (7.94 kgs.)
- Prevail: 20 lbs. (9.09 kgs.)
- Prevail XL: 45 lbs. (20.41 kgs.)
- Prevail Maxx: 49 lbs. (22.23 kgs.)

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

Energy and Performance Data

Power and Lumens

[View PRV-P IES files](#)

[View PRV IES files](#)

[View PRV-XL IES files](#)

| Product Family | | Prevail Petite | | | | Prevail | | | | Prevail XL | | | | Prevail Maxx | | | |
|--------------------------|---------------------------|----------------|----------|----------|----------|----------|----------|----------|----------|------------|----------|----------|----------|--------------|----------|----------|----------|
| Light Engine | | PA1A | PA1B | PA1C | PA1D | PA1A | PA1B | PA2A | PA2B | PA3A | PA3B | PA4A | PA4B | PA6A | PA6B | PA6C | PA6D |
| Power (Watts) | | 31 | 53 | 72 | 93 | 54 | 74 | 113 | 151 | 172 | 234 | 245 | 303 | 274 | 366 | 457 | 544 |
| Drive Current (mA) | | 375 | 670 | 930 | 1200 | 670 | 930 | 720 | 970 | 750 | 980 | 785 | 970 | 600 | 800 | 1000 | 1200 |
| Input Current @ 120V (A) | | 0.26 | 0.44 | 0.60 | 0.78 | 0.45 | 0.62 | 0.93 | 1.26 | 1.44 | 1.95 | 2.04 | 2.53 | 2.30 | 3.05 | 3.83 | 4.54 |
| Input Current @ 277V (A) | | 0.12 | 0.20 | 0.28 | 0.35 | 0.21 | 0.28 | 0.41 | 0.55 | 0.62 | 0.85 | 0.93 | 1.12 | 0.99 | 1.30 | 1.62 | 1.94 |
| Input Current @ 347V (A) | | 0.10 | 0.17 | 0.23 | 0.29 | 0.17 | 0.23 | 0.33 | 0.45 | 0.52 | 0.70 | 0.74 | 0.90 | 0.78 | 1.05 | 1.32 | 1.60 |
| Input Current @ 480V (A) | | 0.07 | 0.13 | 0.17 | 0.22 | 0.12 | 0.17 | 0.24 | 0.33 | 0.39 | 0.52 | 0.53 | 0.65 | 0.58 | 0.76 | 0.95 | 1.14 |
| Distribution | | | | | | | | | | | | | | | | | |
| Type II Roadway | 4000K/5000K Lumens | 4,505 | 7,362 | 9,495 | 11,300 | 7,605 | 9,896 | 15,811 | 19,745 | 24,718 | 30,648 | 34,067 | 39,689 | 41,611 | 52,596 | 61,921 | 67,899 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B1-U0-G2 | B1-U0-G2 | B1-U0-G2 | B1-U0-G2 | B2-U0-G3 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| | Lumens per Watt | 147 | 139 | 132 | 121 | 141 | 134 | 141 | 131 | 144 | 131 | 139 | 131 | 152 | 144 | 135 | 125 |
| | 3000K Lumens ¹ | 4,103 | 6,705 | 8,647 | 10,291 | 6,926 | 9,012 | 14,399 | 17,982 | 22,511 | 27,912 | 31,025 | 36,145 | 37,896 | 47,900 | 56,392 | 61,837 |
| Type II Roadway w/ HSS | 4000K/5000K Lumens | 3,727 | 6,091 | 7,855 | 9,349 | 6,006 | 7,815 | 12,487 | 15,594 | 19,521 | 24,204 | 26,094 | 31,334 | 32,874 | 41,553 | 48,919 | 53,642 |
| | BUG Rating | B0-U0-G1 | B0-U0-G2 | B0-U0-G2 | B1-U0-G2 | B0-U0-G1 | B1-U0-G2 | B1-U0-G2 | B1-U0-G2 | B1-U0-G3 | B1-U0-G3 | B1-U0-G4 | B1-U0-G4 | B2-U0-G4 | B2-U0-G4 | B2-U0-G5 | B2-U0-G5 |
| | Lumens per Watt | 121 | 115 | 109 | 100 | 111 | 106 | 111 | 103 | 113 | 103 | 107 | 103 | 120 | 114 | 107 | 99 |
| | 3000K Lumens ¹ | 3,394 | 5,547 | 7,154 | 8,514 | 5,470 | 7,117 | 11,372 | 14,201 | 17,778 | 22,043 | 24,502 | 28,545 | 29,939 | 37,843 | 44,552 | 48,853 |
| Type II Urban | 4000K/5000K Lumens | 4,496 | 7,347 | 9,476 | 11,277 | 7,597 | 9,886 | 15,795 | 19,724 | 24,692 | 30,616 | 34,031 | 39,647 | 41,372 | 52,294 | 61,565 | 67,509 |
| | BUG Rating | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B3-U0-G3 | B2-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B4-U0-G4 | B4-U0-G4 | B4-U0-G4 | B4-U0-G4 | B4-U0-G4 | B5-U0-G5 | B5-U0-G5 | B5-U0-G5 |
| | Lumens per Watt | 146 | 139 | 131 | 121 | 141 | 134 | 141 | 131 | 144 | 131 | 139 | 131 | 151 | 143 | 135 | 124 |
| | 3000K Lumens ¹ | 4,095 | 6,691 | 8,630 | 10,271 | 6,919 | 9,003 | 14,384 | 17,963 | 22,488 | 27,882 | 30,992 | 36,107 | 37,678 | 47,625 | 56,068 | 61,481 |
| Type II Urban w/ HSS | 4000K/5000K Lumens | 3,253 | 5,316 | 6,856 | 8,160 | 5,297 | 6,893 | 11,013 | 13,753 | 17,217 | 21,347 | 23,728 | 27,644 | 28,951 | 36,594 | 43,082 | 47,241 |
| | BUG Rating | B1-U0-G1 | B1-U0-G1 | B1-U0-G2 | B1-U0-G2 | B1-U0-G1 | B1-U0-G2 | B1-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 |
| | Lumens per Watt | 106 | 101 | 95 | 87 | 98 | 93 | 97 | 91 | 100 | 91 | 97 | 91 | 106 | 100 | 94 | 87 |
| | 3000K Lumens ¹ | 2,963 | 4,841 | 6,244 | 7,431 | 4,824 | 6,277 | 10,029 | 12,525 | 15,680 | 19,441 | 21,609 | 25,176 | 26,366 | 33,327 | 39,235 | 43,023 |
| Type III | 4000K/5000K Lumens | 4,443 | 7,261 | 9,364 | 11,145 | 7,575 | 9,857 | 15,749 | 19,667 | 24,621 | 30,527 | 33,932 | 39,532 | 41,155 | 52,020 | 61,242 | 67,155 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G2 | B2-U0-G2 | B1-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| | Lumens per Watt | 145 | 138 | 130 | 119 | 140 | 133 | 141 | 130 | 143 | 130 | 138 | 130 | 150 | 142 | 134 | 123 |
| | 3000K Lumens ¹ | 4,046 | 6,612 | 8,528 | 10,150 | 6,899 | 8,977 | 14,343 | 17,911 | 22,423 | 27,802 | 30,903 | 36,002 | 37,480 | 47,375 | 55,774 | 61,159 |
| Type III w/ HSS | 4000K/5000K Lumens | 3,406 | 5,566 | 7,179 | 8,543 | 5,592 | 7,277 | 11,626 | 14,519 | 18,176 | 22,536 | 25,049 | 29,183 | 30,159 | 38,121 | 44,879 | 49,212 |
| | BUG Rating | B0-U0-G1 | B1-U0-G2 | B1-U0-G2 | B1-U0-G2 | B1-U0-G2 | B1-U0-G2 | B1-U0-G2 | B1-U0-G3 | B2-U0-G4 | B2-U0-G4 | B2-U0-G4 | B2-U0-G5 | B2-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 |
| | Lumens per Watt | 111 | 105 | 100 | 91 | 104 | 98 | 103 | 96 | 106 | 96 | 102 | 96 | 110 | 104 | 98 | 90 |
| | 3000K Lumens ¹ | 3,102 | 5,069 | 6,538 | 7,781 | 5,093 | 6,627 | 10,588 | 13,222 | 16,553 | 20,524 | 22,813 | 26,578 | 27,466 | 34,717 | 40,872 | 44,818 |
| Type IV Wide | 4000K/5000K Lumens | 4,348 | 7,106 | 9,164 | 10,906 | 7,484 | 9,738 | 15,560 | 19,431 | 24,325 | 30,161 | 33,525 | 39,057 | 41,207 | 52,086 | 61,320 | 67,240 |
| | BUG Rating | B1-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| | Lumens per Watt | 142 | 135 | 127 | 117 | 139 | 132 | 139 | 129 | 141 | 129 | 137 | 129 | 151 | 142 | 134 | 124 |
| | 3000K Lumens ¹ | 3,960 | 6,471 | 8,346 | 9,932 | 6,816 | 8,869 | 14,170 | 17,696 | 22,153 | 27,468 | 30,531 | 35,570 | 37,528 | 47,435 | 55,845 | 61,236 |
| Type IV Wide w/ HSS | 4000K/5000K Lumens | 3,318 | 5,422 | 6,993 | 8,323 | 5,420 | 7,053 | 11,268 | 14,072 | 17,617 | 24,843 | 24,279 | 28,286 | 30,005 | 37,926 | 44,650 | 48,961 |
| | BUG Rating | B0-U0-G1 | B1-U0-G2 | B1-U0-G2 | B1-U0-G2 | B1-U0-G2 | B1-U0-G2 | B1-U0-G3 | B1-U0-G3 | B1-U0-G4 | B2-U0-G4 | B2-U0-G4 | B2-U0-G5 | B2-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 |
| | Lumens per Watt | 108 | 103 | 97 | 89 | 100 | 95 | 100 | 93 | 102 | 106 | 99 | 93 | 110 | 104 | 98 | 90 |
| | 3000K Lumens ¹ | 3,022 | 4,938 | 6,369 | 7,580 | 4,936 | 6,423 | 10,262 | 12,816 | 16,044 | 19,892 | 22,111 | 25,760 | 27,326 | 34,540 | 40,664 | 44,589 |
| Type V Square Wide | 4000K/5000K Lumens | 4,497 | 7,349 | 9,478 | 11,280 | 7,831 | 10,190 | 16,281 | 20,332 | 25,453 | 31,559 | 35,079 | 40,868 | 42,947 | 54,285 | 63,909 | 70,079 |
| | BUG Rating | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B3-U0-G2 | B4-U0-G3 | B4-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G5 | B5-U0-G5 | B5-U0-G5 | B5-U0-G5 | B5-U0-G5 | B5-U0-G5 | B5-U0-G5 |
| | Lumens per Watt | 146 | 139 | 131 | 121 | 145 | 138 | 145 | 135 | 148 | 135 | 143 | 135 | 157 | 143 | 136 | 129 |
| | 3000K Lumens ¹ | 4,095 | 6,693 | 8,632 | 10,273 | 7,132 | 9,280 | 14,827 | 18,517 | 23,180 | 28,741 | 31,947 | 37,219 | 39,112 | 49,438 | 58,203 | 63,822 |

NOTES:
1. For 3000K or HSS BUG Ratings, refer to published IES files

Energy and Performance Data

House Side Shield Reference Table

| Product Family | | Prevail | Prevail | | Prevail XL | | Prevail Maxx |
|----------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Light Engine | | PA1 | PA1 | PA2 | PA3 | PA4 | PA6 |
| Rotated Optics | Standard | HSS-HP (Qty 1) | HSS-VP (Qty 1) | HSS-HP (Qty 2) | HSS-HP (Qty 3) | HSS-VP (Qty 4) | HSS-HP (qty 6) |
| | L90 or R90 option | HSS-VP (Qty 1) | HSS-HP (Qty 1) | HSS-VP (Qty 2) | HSS-VP (Qty 3) | HSS-HP (Qty 4) | HSS-VP (qty 6) |

Sensor Color Reference Table (SPBx)

| Housing Finish | Sensor Color |
|----------------------|--------------|
| AP=Grey | Grey |
| BZ=Bronze | Bronze |
| BK=Black | Black |
| DP=Dark Platinum | Grey |
| GM=Graphite Metallic | Black |
| WH=White | White |

Lumen Multiplier

| Ambient Temperature | Lumen Multiplier |
|---------------------|------------------|
| 0°C | 1.02 |
| 10°C | 1.01 |
| 25°C | 1.00 |
| 40°C | 0.99 |
| 50°C | 0.97 |

FADC Settings

| FADC Postion | Percent of Typical Lumen Output |
|--------------|---------------------------------|
| 1 | 25% |
| 2 | 48% |
| 3 | 55% |
| 4 | 62% |
| 5 | 72% |
| 6 | 77% |
| 7 | 82% |
| 8 | 85% |
| 9 | 90% |
| 10 | 100% |

Note: +/-5% typical value

Lumen Maintenance

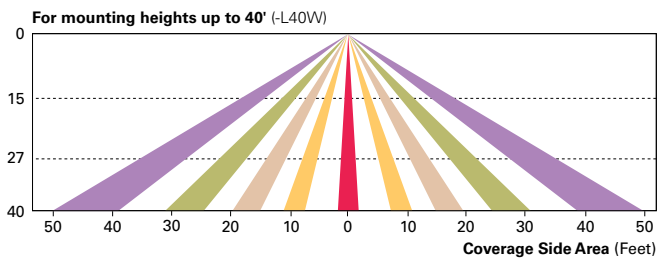
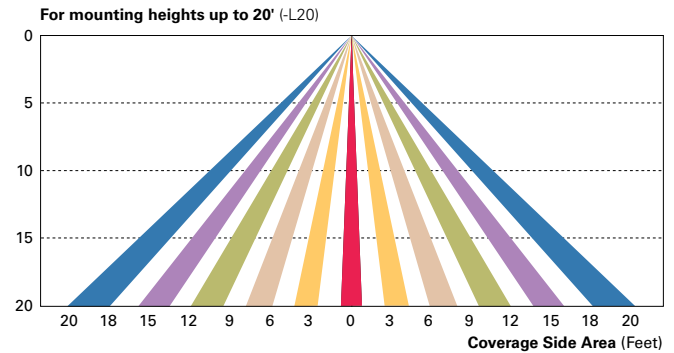
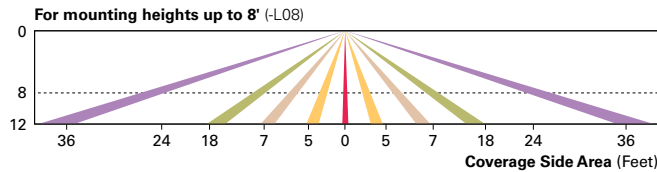
| Ambient Temperature | TM-21 Lumen Maintenance (78,000 Hours) | Theoretical L70 (Hours) |
|---------------------|--|-------------------------|
| Up to 50°C | 96.76% | > 896,000 |

Control Options

0-10V This fixture provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (PR and PR7) Photocontrol receptacles provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-PIN standards can be utilized with the PR7 receptacle.

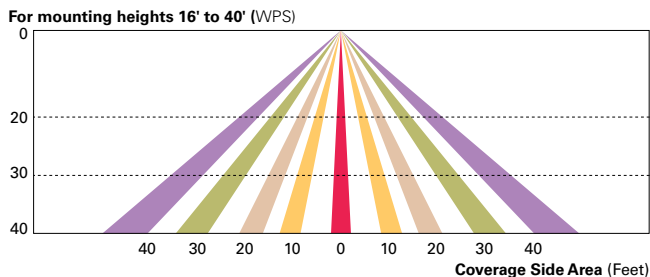
Dimming Occupancy Sensor (SPB, MS/DIM-LXX) These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the luminaire will dim down after five minutes of no activity detected. When activity is detected, the luminaire returns to full light output. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or "daylight harvesting." Factory default is enabled for the MS sensors and disabled for the SPB. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes.



WaveLinx Wireless Control and Monitoring System Available in 7-PIN or 4-PIN configurations, the WaveLinx Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets).

WaveLinx Outdoor Control Module (WOLC-7P-10A) A photocontrol that enables astronomical or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

WaveLinx Wireless Sensor (WPS2 and WPS4) These outdoor sensors offer passive infrared (PIR) occupancy sensing and a photocell for closed-loop daylight sensing. These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected, and the photocell for "dusk-to-dawn" control is default enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.



LumenSafe (LD) The LumenSafe integrated network camera is a streamlined, outdoor-ready camera that provides high definition video surveillance. This IP camera solution is optimally designed to integrate into virtually any video management system or security software platform of choice. No additional wiring is needed beyond providing line power to the luminaire. LumenSafe features factory-installed power and networking gear in a variety of networking options allowing security integrators to design the optimal solution for active surveillance.