



**IV. F.**

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## **Architectural Review Board Staff Report**

**Project Type:** Amended Site Development Section Plan

**Meeting Date:** November 8, 2018

**From:** Andrew Stanislav   
Planner

**Location:** An 8.47 acre tract of land located at the eastern corner of the intersection of Olive Boulevard and Ladue Road.

**Description:** **Trails West Village of Green Trails (Chesterfield Community Church):** An Amended Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for an 8.47 acre tract of land zoned "NU" Non-Urban and "R-2" Residence (15,000 square feet) located at the eastern corner of the intersection of Olive Boulevard and Ladue Road (14647 Ladue Road).

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### **PROPOSAL SUMMARY**

The request is for an 8,600 square foot addition to Chesterfield Community Church, an existing place of worship located at the eastern corner of the intersection of Olive Boulevard and Ladue Road. The subject site is zoned "NU" Non-Urban and "R-2" Residence (15,000 square feet). The exterior building materials will primarily consist of EIFS with a brick veneer wainscoting and areas of fiber cement lap siding accents. Rooftop-mounted mechanical equipment will be screened by parapet walls and a trash enclosure will be six feet in height and match the fiber cement lap siding material used on the building's façade.

### **HISTORY OF SUBJECT SITE**

The subject site was zoned "NU" Non-Urban and "R-2" Residence (15,000 square feet) by St. Louis County prior to the City's incorporation. According to St. Louis County records, the existing building was built in 1970 with an addition in 1985. Since the City's incorporation, there have been no requests to rezone the property nor submittals of any development plans for review.

A Boundary Adjustment Plat (BAP) was recorded in 1984 to consolidate multiple lots into two separate lots. Currently, the two parcels comprising the subject site are proposed for further

consolidation to create one parcel for the church development. The existing property boundaries and easements are recognized on the color site plan in Figure 2 below and are noted to indicate the intention of the applicant to consolidate these parcels. A Boundary Adjustment Plat for this consolidation is anticipated to be submitted for review by City Staff and considered by City Council in the near future. The consolidated property boundaries are also depicted in Figure 1 below.



Figure 1: Aerial Site Photo (lot not drawn to scale/approximated)

## **STAFF ANALYSIS**

### **General Requirements for Site Design:**

The subject site is located at the eastern corner of the intersection of Olive Boulevard and Ladue Road within the Trails West Village of Green Trails subdivision and is adjacent to residential uses on all sides. The subject area is designated “Residential Single-Family (Attached/Detached)” as well as all surrounding properties within the City of Chesterfield’s Comprehensive Land Use Plan. The proposed development fits within its surrounding context as churches and places of worship are permitted as a public use within all residential zoning districts.

The location of the existing building has frontage along both Olive Boulevard and Ladue Road, while the proposed addition will have high visibility from Olive Boulevard. Given that both of these roadways are classified as major arterials according to the City’s functional classification system, the site is highly visible from a large number of users at this intersection. The building itself is screened by an existing wooded area from Ladue Road, which also provides screening for the abutting residential properties to the north and east. The building is most visible when traveling on Olive Boulevard along the western property limit, which is where the majority of the proposed addition will be seen.



Figure 2: Color Site Development Section Plan

### Circulation System and Access

The subject site is currently served by a single access point at the north end of the property from Olive Boulevard, a MoDOT maintained roadway, and by one additional eastern access point leading to Ladue Road which is maintained by the City. Both existing access drives are proposed to remain unchanged. Circulation within the site along the drive aisles will also remain unchanged, although additional parking spaces are proposed on the east side of the existing northern parking area as well as converting a former row of parallel parking spaces to additional 90 degree parking spaces west of the existing sanctuary.

There is an existing sidewalk along the frontage of Ladue Road that follows the large right-of-way boundary and wraps away from the paved roadway to a dead end. This sidewalk is proposed to continue to lead onto the subject property and provide pedestrian access to the building and entry plaza. The applicant has also been working with MoDOT to coordinate installation of sidewalk along Olive Boulevard and connections to the existing sidewalk on Ladue Road. Future sidewalk installation plans proposed by MoDOT are depicted on the plans for this development and are noted in Figure 2.

### **Topography, Parking, & Retaining Walls**

The site has a generous slope to the east that allows for the existing building to have a walk-out lower level. When on the site, areas for parking and along the western elevation of the existing building are generally flat. The driveway connecting the two parking areas follows the mentioned slope before reaching the relatively flat eastern parking area on the same level as the walk-out basement. Two existing retaining walls provide relief from the sloping terrain near the parking area to the west along Olive Boulevard and on the eastern elevation of the existing building near the playground.

In total, 138 parking spaces are proposed for the subject site. Additional parking spaces required as part of this development will be located to the east of the existing northern parking area and to the west of the existing building in place of some existing parallel parking spaces. A versa-lok retaining wall of approximately 17 feet in height is proposed to accommodate the parking spaces expanding the northern parking area where the slope of the site interferes with having a level grade. The existing woodland area surrounding this retaining wall provides screening to the north and east. Five ADA parking spaces are located within the new parking area to the west of the existing building where the sidewalk is proposed to extend and provide access onto the site.

### **General Requirements for Building Design:**

This request is to allow for an 8,600 square foot addition to the existing Chesterfield Community Church at the intersection of Olive Boulevard and Ladue Road. The building will be 27'-6" in height at its highest point at the entry tower feature, while the mass of the sanctuary space consisting of a majority of the proposed addition will be 24 feet tall. The new sanctuary space will have the capacity for 400 seats. A new gathering entry plaza of a smaller scale is proposed on the western side of the building where the new addition connects to the existing structure.

#### **A. Scale**

The proposed building addition is 27'-6" in height at its highest point near the main entry on the tower feature, while the majority of the proposed addition is a new sanctuary space that is 24 feet tall. The proposed addition is slightly lower in height than the existing sanctuary's height of 29 feet, and the portion of the addition serving as the new entry off of the proposed gathering entry plaza maintains a smaller scale of 15 feet to connect to the portion of the existing building that is 13 feet in height. The new sanctuary mass rises up taller than the entry space intended to balance the existing tall sanctuary to the south. The new addition will be most visible from the west and north elevations, while the existing building screens most of the addition on the south elevation and existing woodlands screen the building's east elevation. The proposed addition compliments the existing building and maintains an adequate distance from surrounding residential properties that are buffered by existing woodland areas as well as new landscaping throughout the parking areas and along Olive Boulevard.

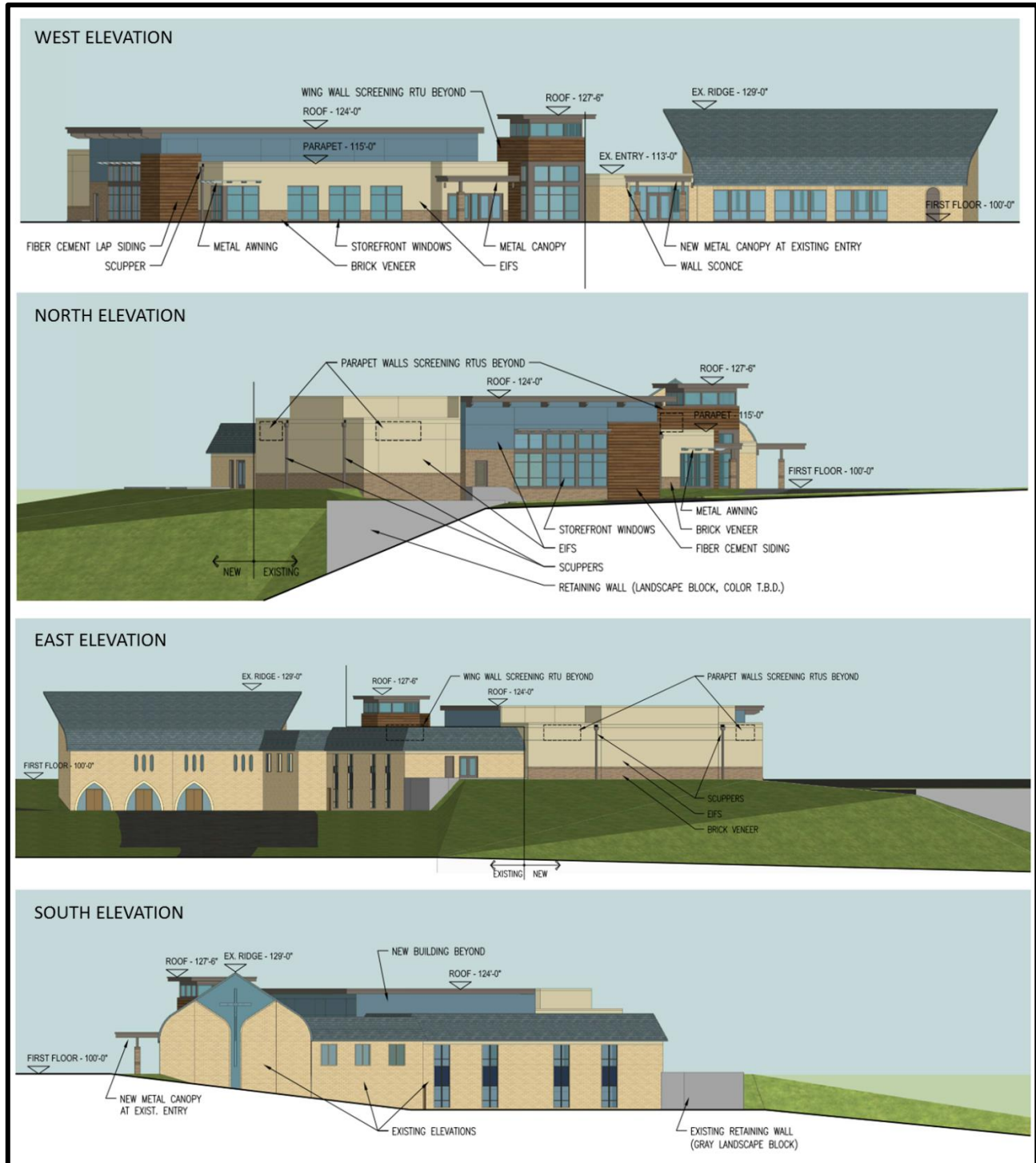


Figure 3: Color Exterior Elevations

**B. Design**

The primary exterior material of the building is EIFS in two different complementary colors to the existing building. A brick veneer wainscoting is proposed to surround the addition on all exposed elevations, and a fiber cement lap siding is proposed on the tower feature near the main entry and other accent areas. The Architect notes in the Statement of Design that the “EIFS and brick veneer

pick up on existing material, with the brick wainscot providing durability near the ground, while the brick color is different to provide a complement rather than trying to make a difficult color match.” The proposed blue/gray color of the upper sanctuary walls complement the blue/gray shingles on the existing building. Metal-clad canopies are also proposed as accent features over certain windows of the proposed addition as well as over the doorways forming the new gathering entry plaza.



Figure 4: Proposed rendering view looking southeast across the site

### C. Materials and Color

The exterior building materials will primarily consist of EIFS of similar color to the existing building as well as a blue/gray EIFS on upper wall areas of the proposed sanctuary space that complements the shingles of the existing sanctuary space. A brick veneer wainscoting that wraps the proposed addition will also be of a complementary color as the existing building intended to avoid a difficult color match to the existing brick. The proposed fiber cement lap siding serves as a darker accent material on the entry plaza’s tower feature as well as the northwest corner of the new sanctuary mass.

### D. Landscape Design and Screening

Several different areas of landscaping are proposed for the site. Existing trees and woodland areas on the site are proposed to remain as buffers, most notably along Ladue Road to the south and as buffers to adjacent residential properties to the north and east. This existing landscaping will be enhanced along Olive Boulevard by incorporating street trees and a landscape buffer. Trees and landscaping are also proposed throughout the parking areas, as well as along the south and west elevations of the building between the parking area and walkways.

Screening systems for the mechanical units and trash enclosure are proposed to match or be integrated within the building’s design. Rooftop-mounted mechanical units are screened by parapet walls of the new sanctuary and entry tower feature, and a six-foot sight-proof trash enclosure is

proposed on the far end of the eastern parking area with fiber cement lap siding and trim to match the accent features of the new sanctuary addition.

#### **E. Signage**

Signage is not part of the proposal before the Architectural Review Board and will be reviewed separately.

#### **F. Lighting**

Lighting is planned in association with the proposed development as required by the City of Chesterfield. The proposed lighting plan consists of fixtures proposed in the parking area and western building façade near the new gathering entry plaza for navigating the site. All proposed exterior lighting fixtures are flat lensed, utilitarian, and are directed downward. In total, there are eleven proposed fixtures around the parking areas and four wall-mounted sconces near the two doorways of the gathering entry plaza.

### **DEPARTMENT INPUT**

Be advised, this project is still going through development review by City Staff and will not proceed to the Planning Commission until all outstanding items have been addressed. All recommendations made by the ARB will be included in Staff's report to the Planning Commission.

Staff requests review and recommendation on this submittal for Trails West Village of Green Trails (Chesterfield Community Church).

### **MOTION**

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

- 1) "I move to forward the Amended Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for Trails West Village of Green Trails (Chesterfield Community Church), as presented, with a recommendation for approval (or denial) to the Planning Commission."
- 2) "I move to forward the Amended Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for Trails West Village of Green Trails (Chesterfield Community Church) to the Planning Commission with the following recommendations..."

#### Attachments

1. Architectural Review Packet Submittal



6014 DELMAR BOULEVARD  
SAINT LOUIS, MISSOURI 63112  
314.863.1313 FAX 314.863.1393  
email: stlda@stlda.com

October 25, 2018

Dept of Planning and Development Services  
690 Chesterfield Pkwy W  
Chesterfield, MO 63017

Re: Addition to Chesterfield Community Church

To Whom It May Concern,

We are providing the following statement of design from the Architect regarding the proposed addition for Chesterfield Community Church:

The addition creates a gathering plaza at the new main entry, which connects to curb ramps providing accessible routes to parking. Parking is mostly extended to the northeast, away from Olive Boulevard, and where new spaces are added on the west side near Olive, landscaping on top of the existing berms provides a screen. Several new trees in and around the main parking lot soften the view from the road, while leaving gaps for viewing the new entry and plaza and a direct view of the new sanctuary from the north entry drive. Extensive existing wooded areas screen the church, including the new addition, from neighboring residences to the north, east and south. Landscaping areas provide color along the perimeter of the addition and screen a new transformer location. A trash enclosure will be introduced to the northeast corner of the lower level parking lot, well away from the building and with minimum visibility from Ladue Road; it will be clad with fiber cement lap siding matching the accent areas of the new addition. At the northeast corner of the extended upper parking lot, a landscape block retaining wall falls away from the parking, minimizing visibility; the drop is guarded with a black aluminum fence.

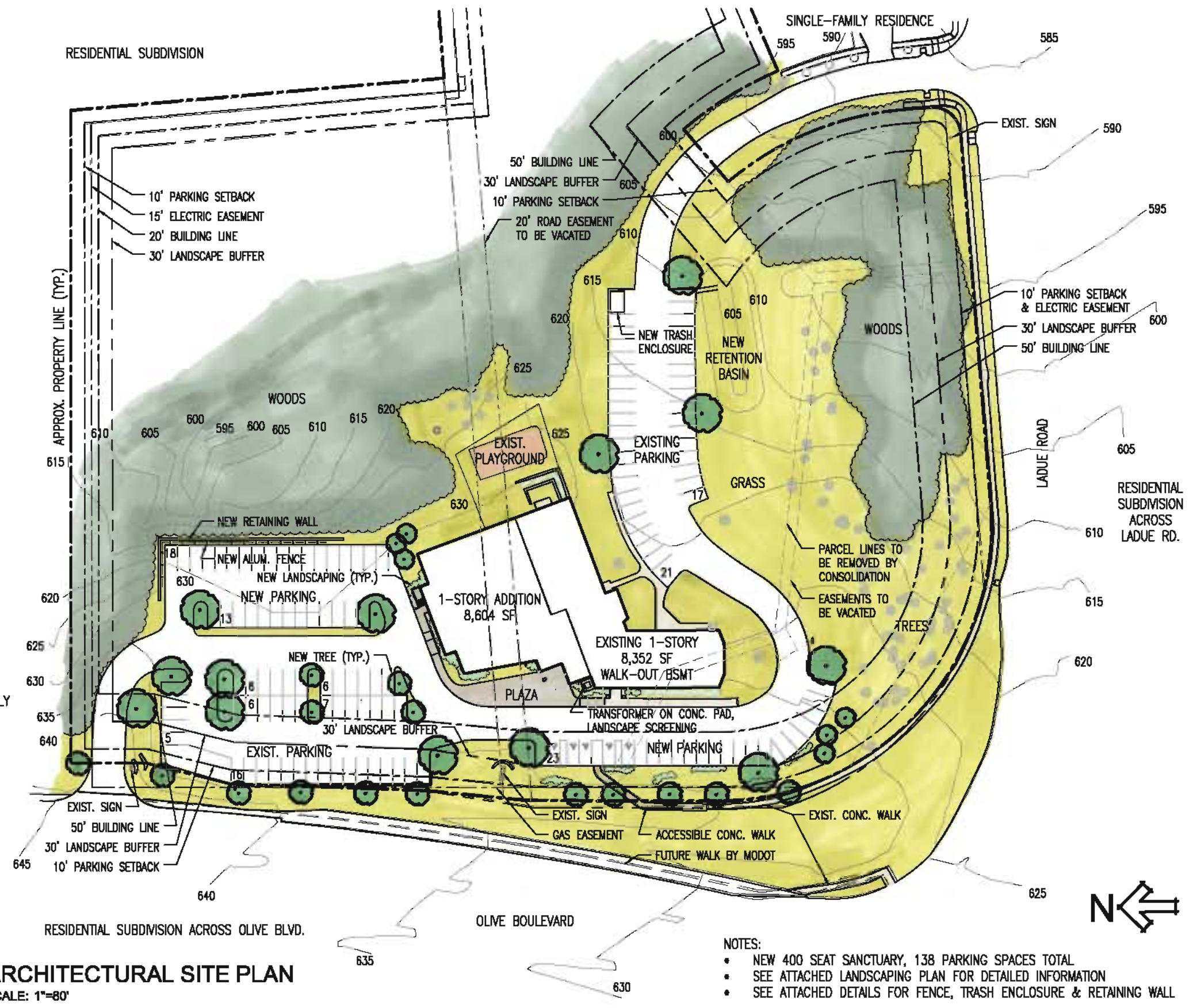
The addition itself connects to the existing building with a lower section of similar height to the existing entry, maintaining a smaller scale for the new entry. EIFS and brick veneer pick up on existing material, with the brick wainscot providing durability near the ground, while the brick color is different to provide a complement rather than trying to make a difficult color match. Fiber cement lap siding highlights the tower adjacent to the main entry, and reappears on the prominent northwest corner of the new sanctuary mass, closest to the parking lot. The fiber cement siding also serves as background to two new signs on the building. The sanctuary mass rises up taller than the entry/foyer space, balancing the existing tall sanctuary to the south. The blues and grays of the upper sanctuary walls and roof echo the blue-gray shingles of the existing sanctuary. To the east, tall parapets screen rooftop units sitting above lower-ceilinged storage rooms. Next to the new stair tower, a wing wall screens an additional rooftop unit. Metal-clad canopies cover the new entry and existing entry on the west.

Sincerely,  
David P. Mastin, AIA





**● SITE LOCATION MAP**  
SCALE: NTS



**● ARCHITECTURAL SITE PLAN**  
SCALE: 1"=80'

- NOTES:**
- NEW 400 SEAT SANCTUARY, 138 PARKING SPACES TOTAL
  - SEE ATTACHED LANDSCAPING PLAN FOR DETAILED INFORMATION
  - SEE ATTACHED DETAILS FOR FENCE, TRASH ENCLOSURE & RETAINING WALL



**SAINT LOUIS DESIGN ALLIANCE**  
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**CHESTERFIELD COMMUNITY CHURCH**  
14647 Ladue Rd, Chesterfield, MO 63017





● RENDERING  
SCALE: NTS



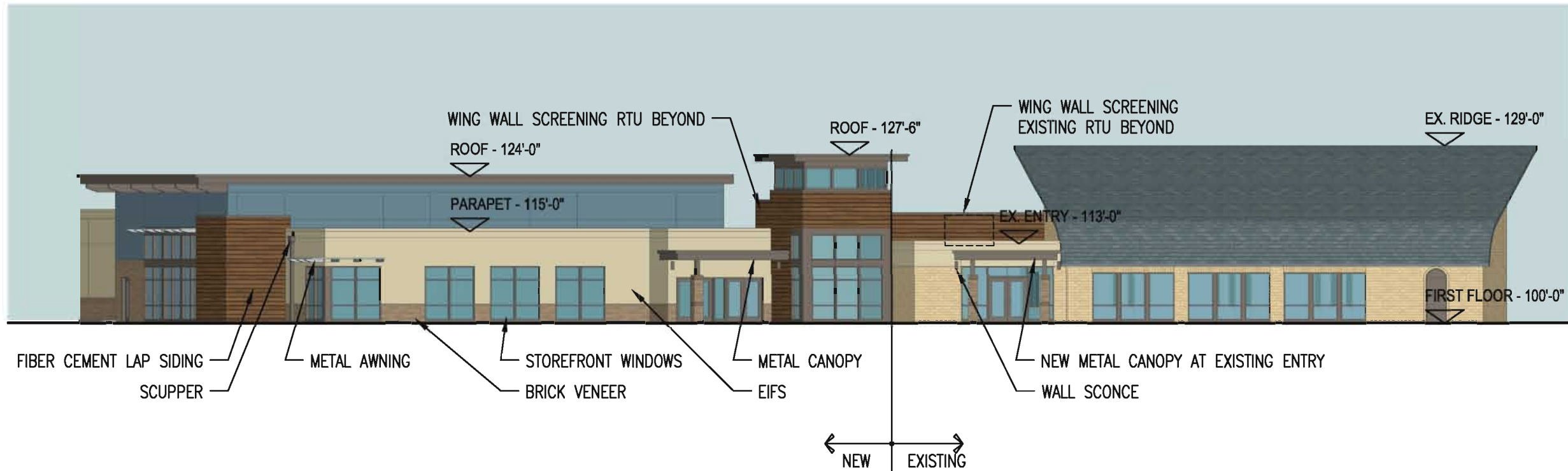
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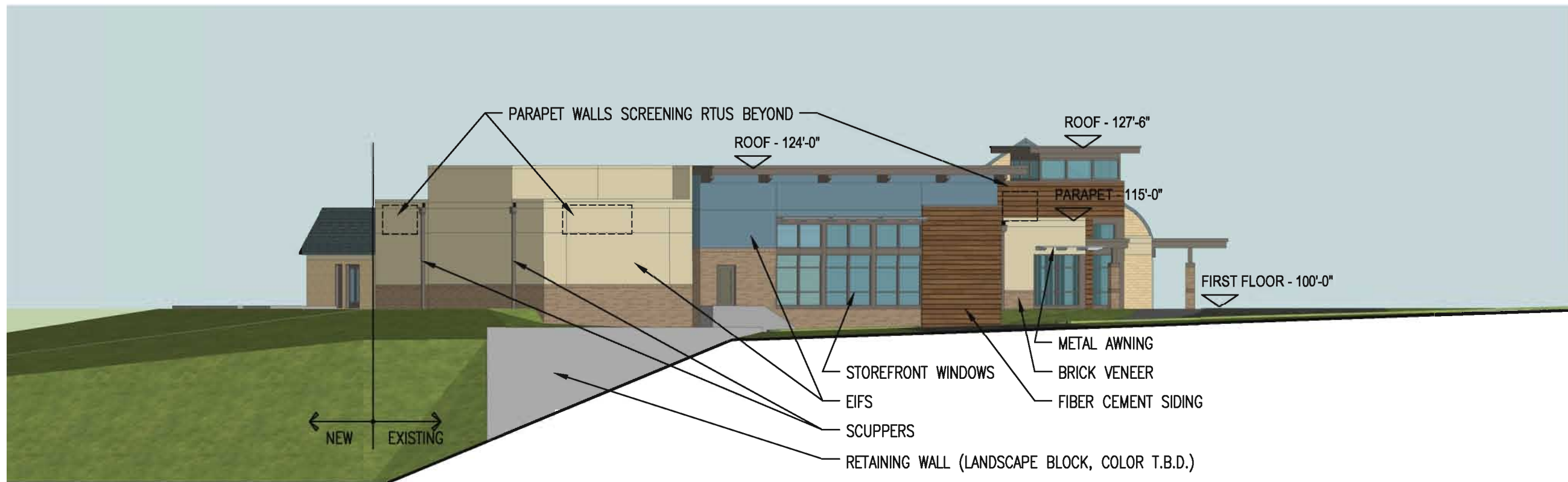
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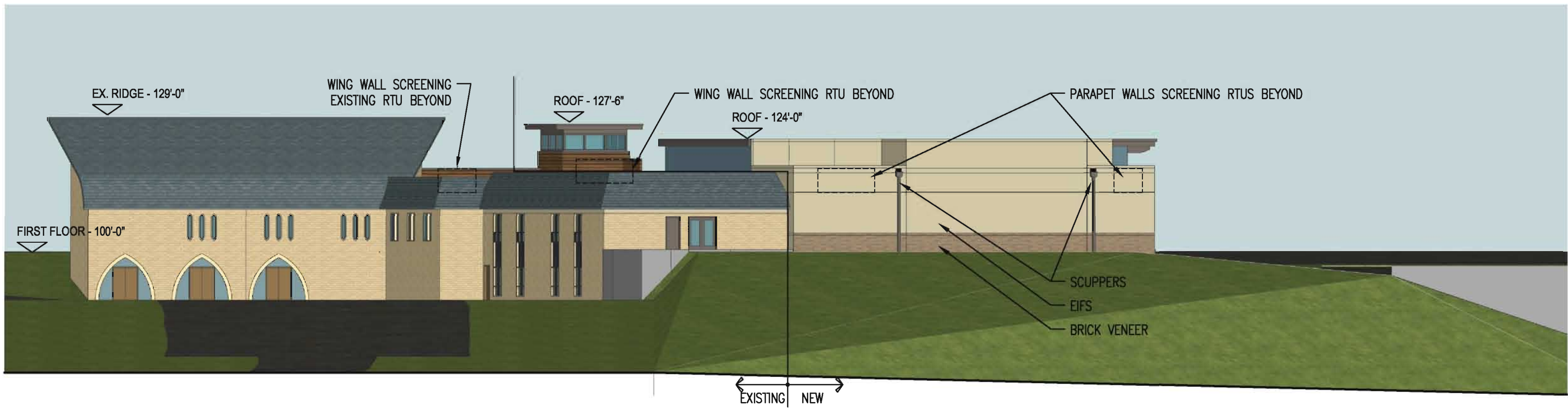




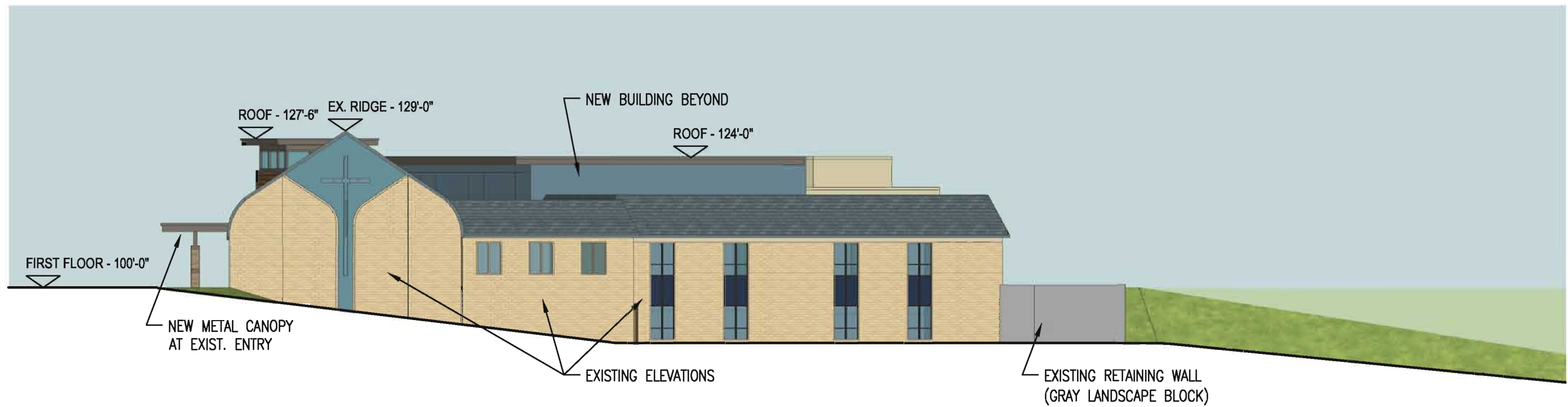
● WEST ELEVATION  
SCALE: 1"=20'



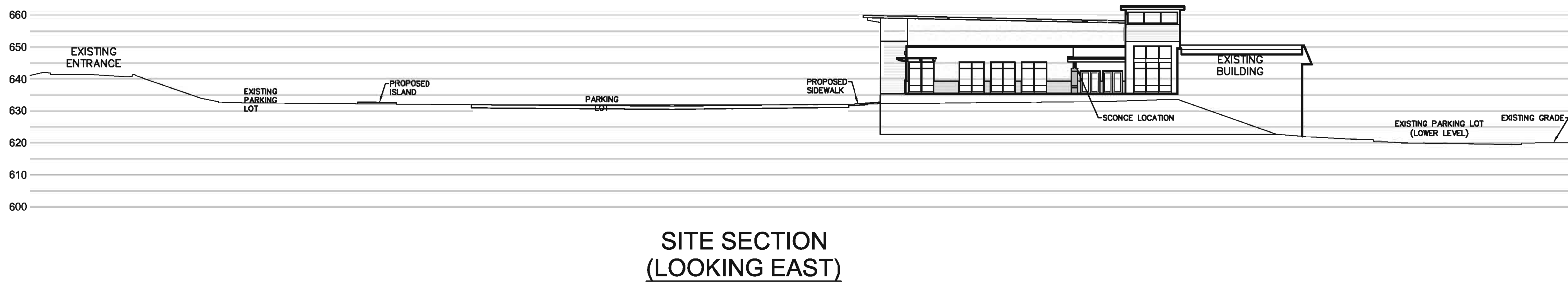
● NORTH ELEVATION  
SCALE: 1"=20'



● EAST ELEVATION  
SCALE: 1"=20'



● SOUTH ELEVATION  
SCALE: 1"=20'

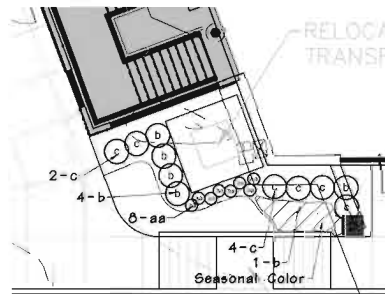


● **SITE SECTIONS**  
SCALE: 1"=30'

PLANTING SCHEDULE								
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	MATURE HEIGHT	Notes	CATEGORY	PERCENTAGE
A	6	<i>Picea omorika</i> 'Bruno'	Bruno Serbian Spruce	8-10'	30-40'	Medium Growing	Evergreen	16%
B	5	<i>Juniperus virginiana</i> 'Taylor'	Taylor Juniper	6-8'	25'+	Medium Growing	Evergreen	13%
C	5	<i>Crataegus laeigata</i> 'Superba'	Crimson Cloud Hawthorn	2 1/2"	15'+	Medium Growing	Ornamental	13%
D	4	<i>Tilia cordata</i> 'Greeneple'	Little-leaf Linden	2 1/2"	45'+	Slow Growing	Deciduous	10%
E	6	<i>Acer rubrum</i> 'Bowhall'	Bowhall Red Maple	2 1/2"	45'+	Fast Growing	Deciduous	13%
F	3	<i>Quercus rubra</i>	Northern Red Oak	2 1/2"	45'+	Medium Growing	Deciduous	8%
G	9	<i>Carpinus caroliniana</i>	American Hornbeam	2 1/2"	20'+	Medium Growing	Ornamental	24%
a	30	<i>Viburnum x burkwoodii</i>	Burkwood Viburnum	24-30"		3' O.C.		
b	7	<i>Buxus sempervirens</i> 'Dee Runk'	Dee Runk Boxwood	30-36"		as shown		
c	27	<i>Buxus sinica</i> var. 'Wintergreen'	Wintergreen Boxwood	18-24"		2.5' O.C.		
d	18	<i>Juniperus sabina</i> 'Buffalo'	Buffalo Juniper	18-24"		4' O.C.		
e	24	<i>Ilex verticillata</i> 'Afterglow'	Afterglow Winterberry	24-30"		3' O.C.		
aa	8	<i>Calamagrostis</i> a. 'Karl Foerster'	Karl Foerster Grass	1 gal		18" oc		
bb	88	Seasonal Color to be Selected		2" cp		9' O.C.		
		Bioretention Plantings per MSD	to be Selected					

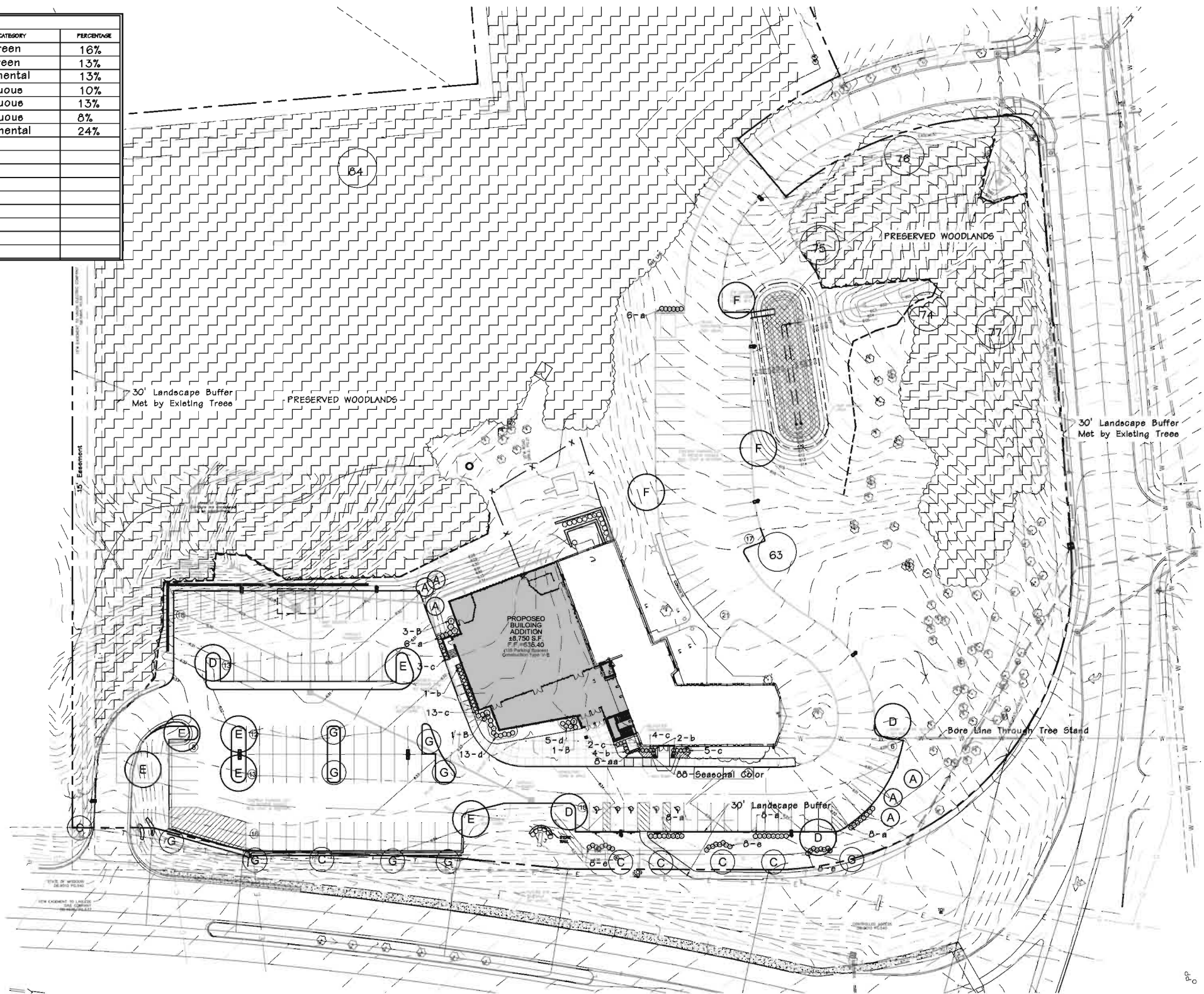
● LANDSCAPE SCHEDULE

SCALE: NTS



● TRANSFORMER SCREENING

SCALE: NTS





RESIDENTIAL SUBDIVISION



3



4

SINGLE-FAMILY RESIDENCE



5

RESIDENTIAL SUBDIVISION ACROSS LADUE RD.



6



7



2

SINGLE-FAMILY RESIDENCE

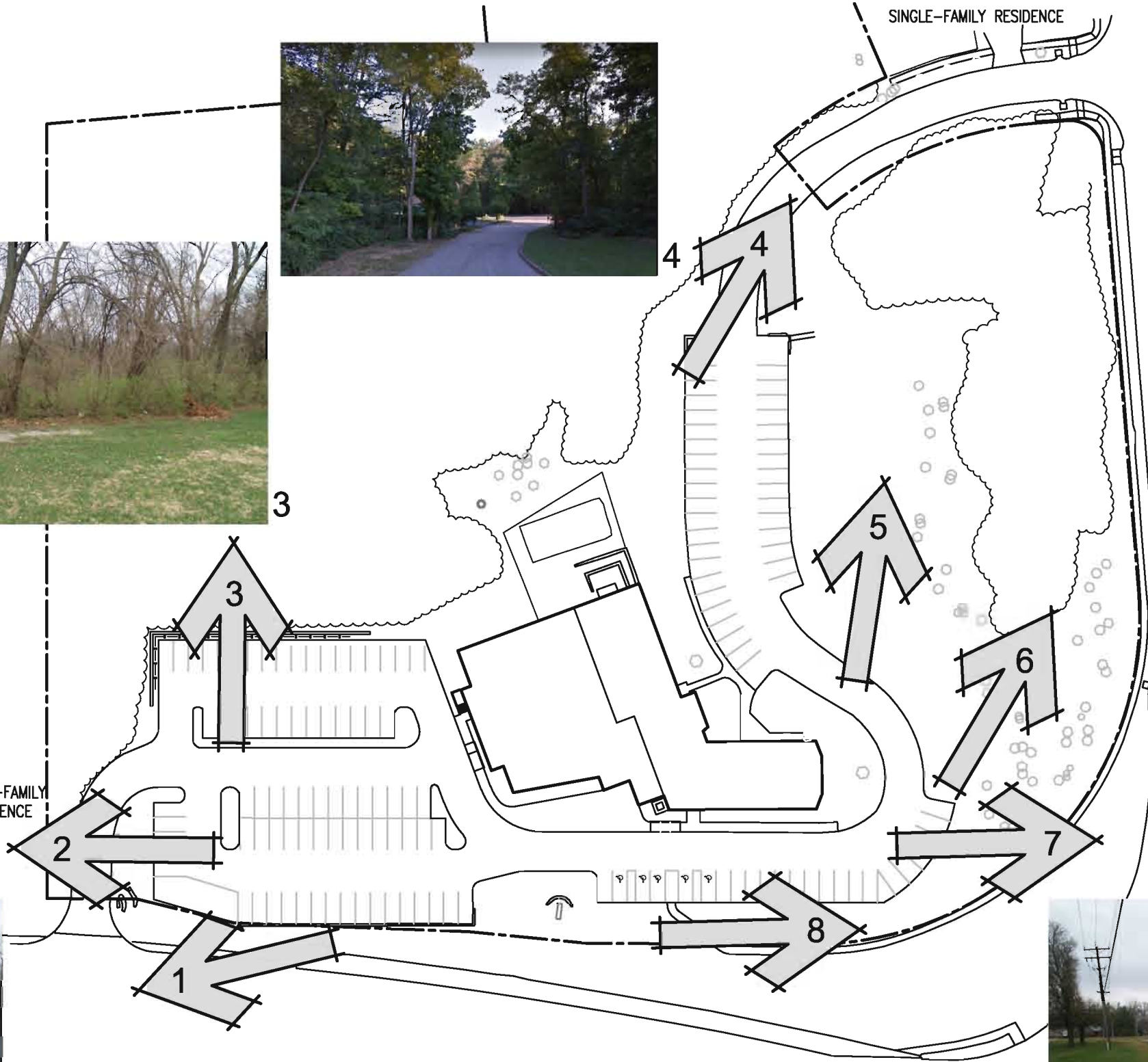


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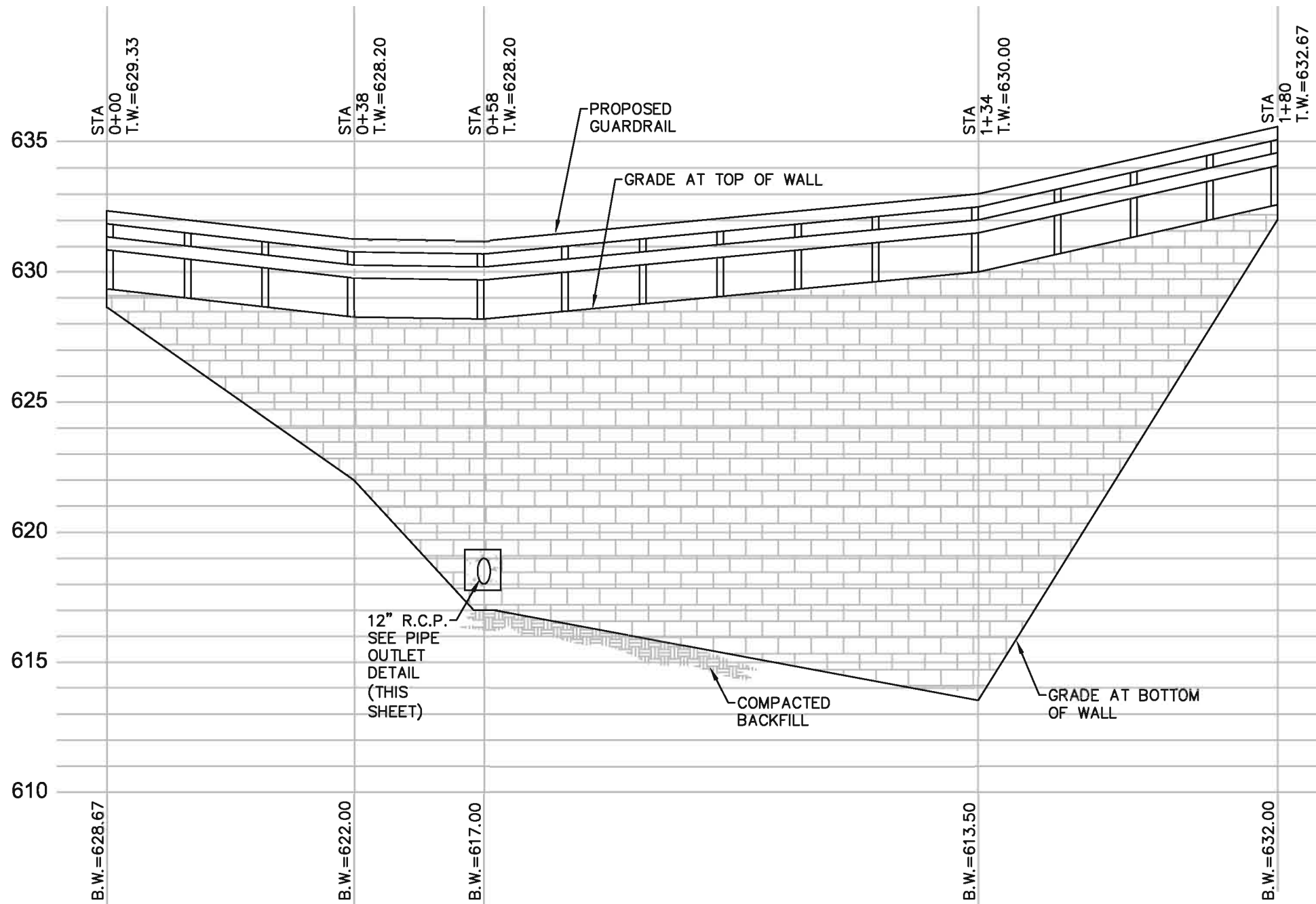
RESIDENTIAL SUBDIVISION ACROSS OLIVE BLVD.



8



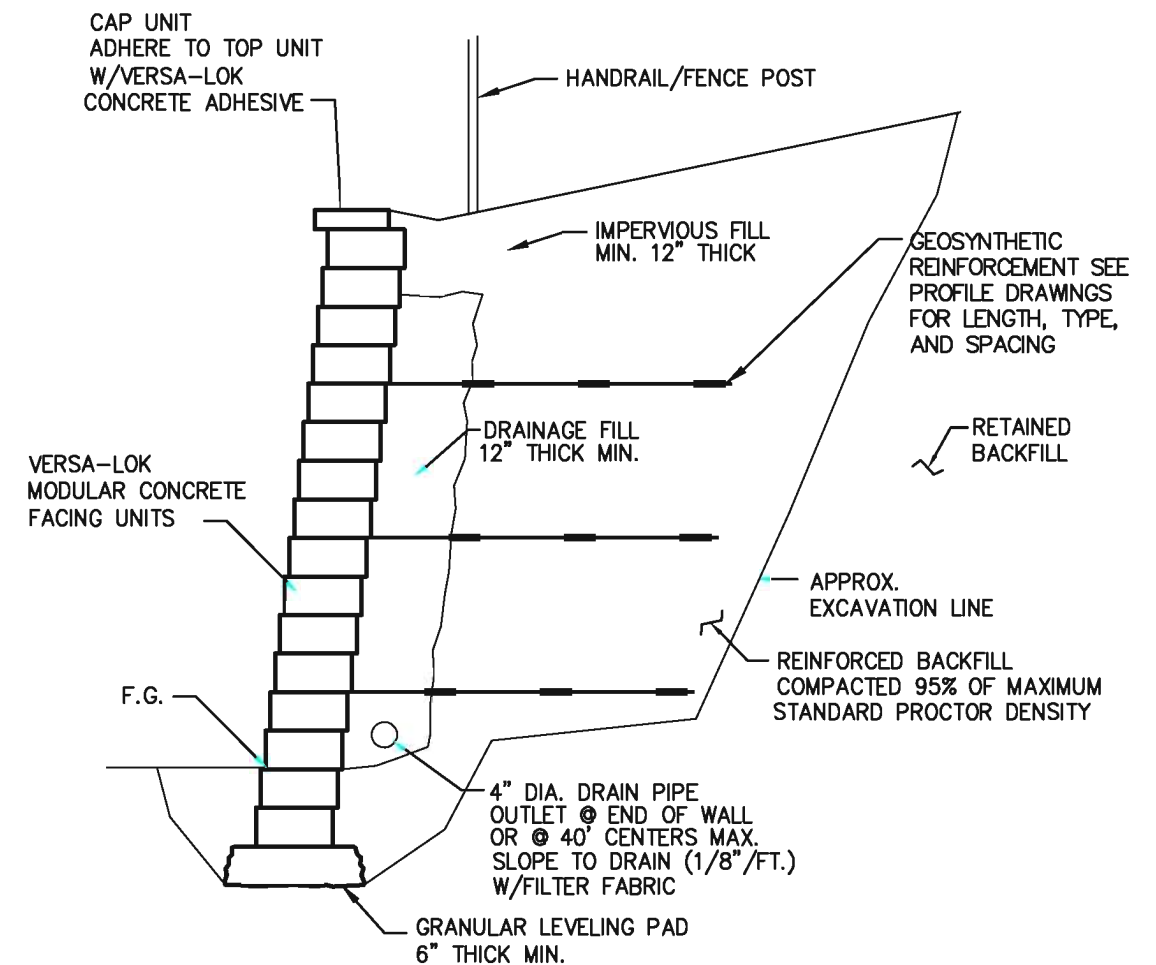
● ADJACENT PROPERTY VIEWS  
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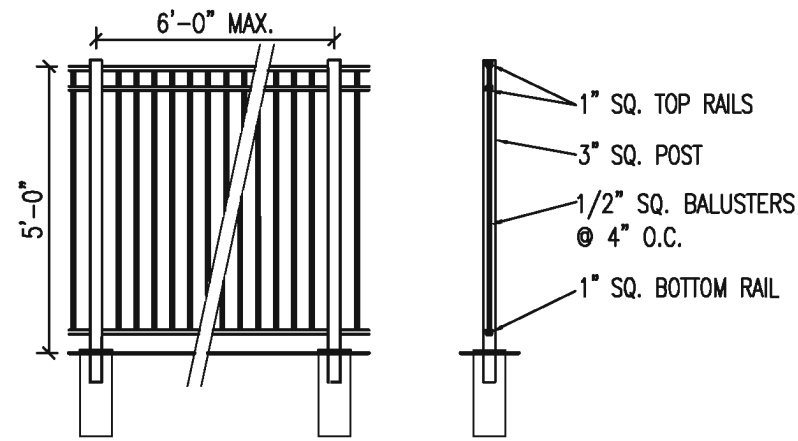
**RETAINING WALL  
PROFILE**

SCALE:  
HORIZONTAL: 1"=20'  
VERTICAL: 1"=5'

**RETAINING WALL DETAILS**  
SCALE: 1"=20'



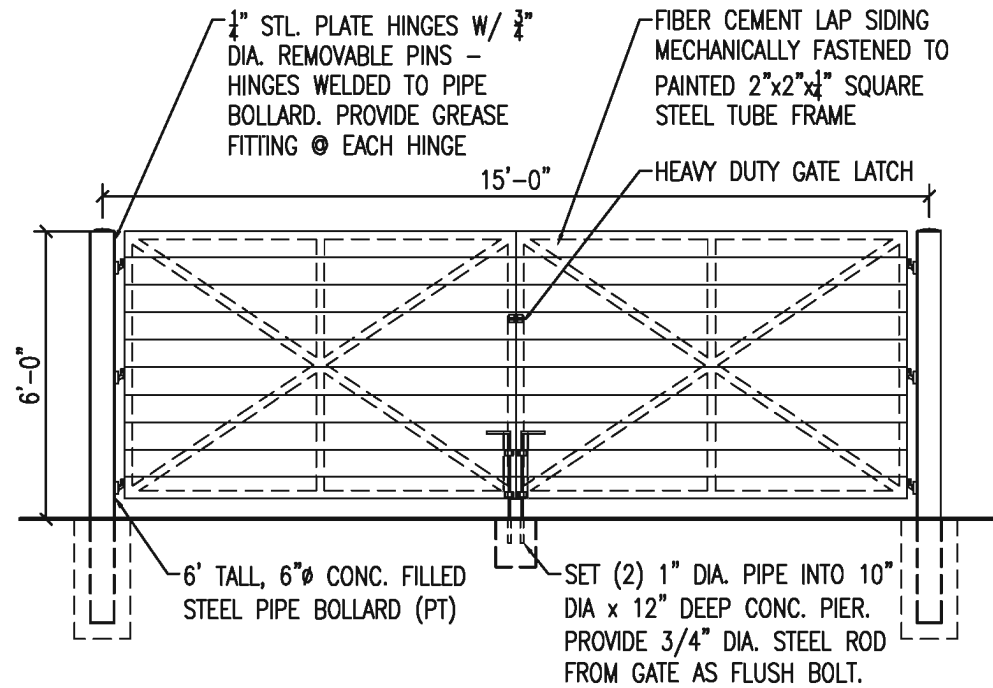
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MODULAR CONCRETE UNIT  
SCALE: NONE



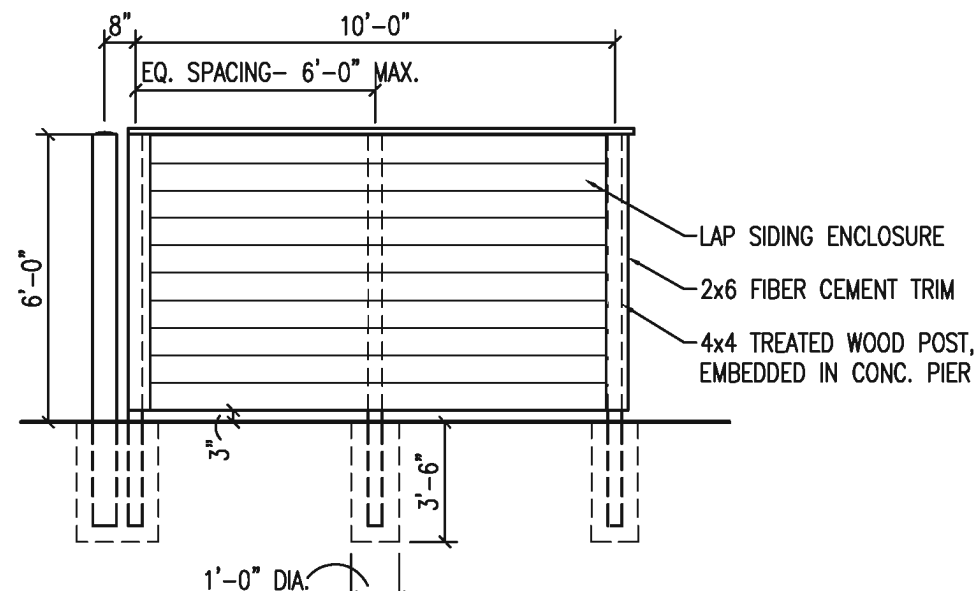
PRE-FABRICATED ALUMINUM FENCE (BLACK)

● FENCE

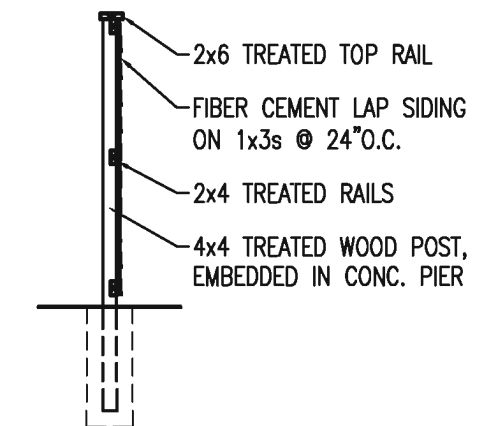
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GATE ELEVATION



SIDE ELEVATION (TYP.)



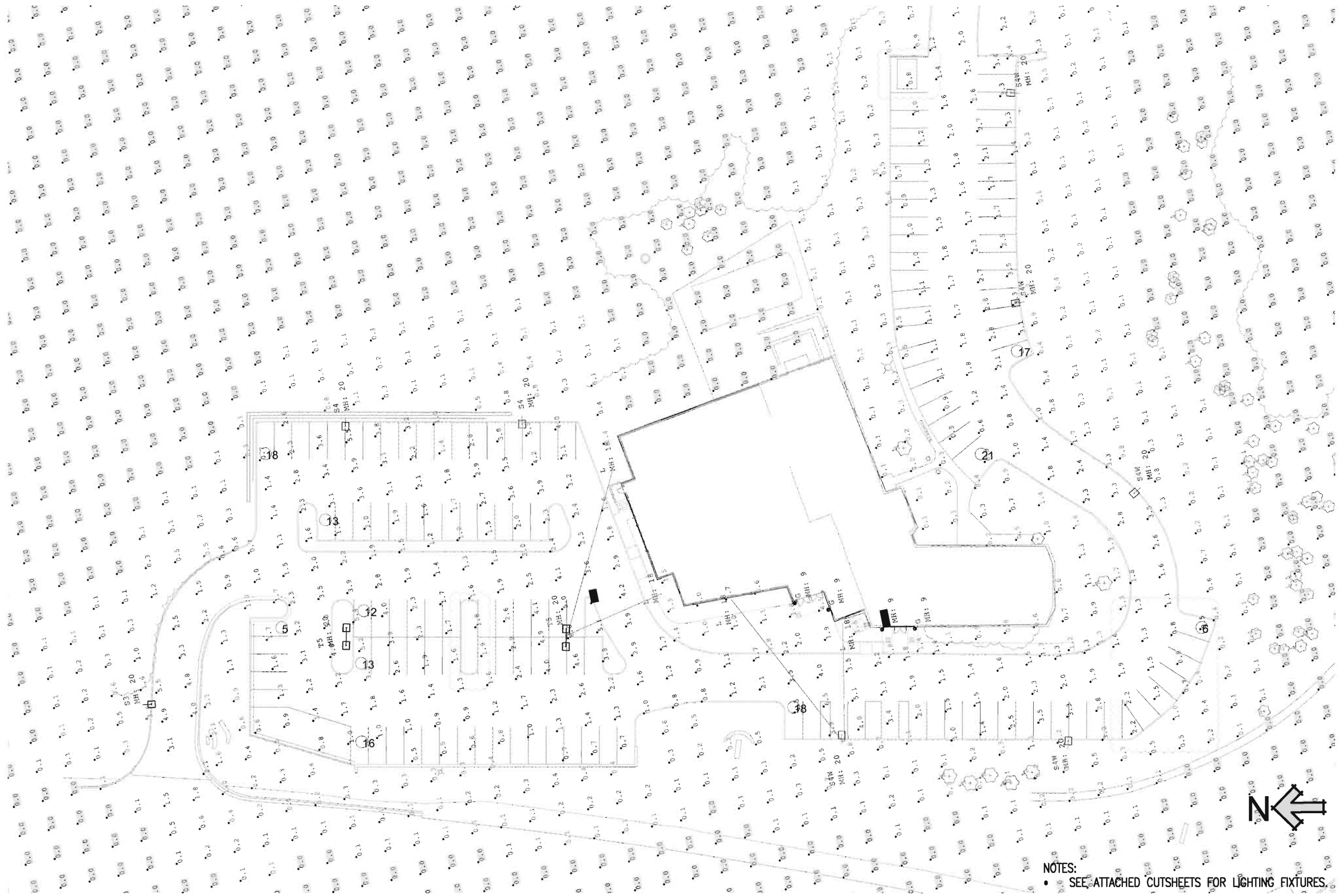
SECTION (TYP.)

SIDING TRASH ENCLOSURE (MATCH SIDING COLOR ON ADDITION)

● TRASH ENCLOSURE

SCALE: 1/4"=1'-0"

● SITE PHOTOMETRIC PLAN  
SCALE: NTS



NOTES:  
● SEE ATTACHED CUTSHEETS FOR LIGHTING FIXTURES.



SAINT LOUIS DESIGN ALLIANCE

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# CHESTERFIELD COMMUNITY CHURCH

14647 Ladue Rd, Chesterfield, MO 63017



# CYLINDER 6x14

architectural

ESTHER  
COMM CHURCH

Type: **G**  
Catalog number:

LED 6" aperture open, precision optic  
VR series, 1000 to 3500 lumen

## LED cylinder | 120-277 Volt

Spun aluminum cylinder and trim offered in matching finishes. Trim also offered in Haze. Inner optic is in six beam angles and is only offered in a faceted ultra-bright finish.

Textured polyester powdercoat on exterior finish available in black, white, bronze or metallic silver. Other finishes available consult factory.

Pendant fixtures feature a 5/8" OD mounting stem with a swivel canopy that self-adjusts up to 45° to accommodate slope ceilings. Factory standard stem length is 12". Pendant mount for indoor applications only.

Cord mount fixtures have a standard 6-foot black power cord. White cord supplied on white fixtures only. L – Factory standard cord is 6 feet, field adjustable to shorter lengths. Dimming not available with coil cord options.

Wall mount fixtures have a cast aluminum mounting arm that is 4 5/8"W x 4 7/8"H.

5-year LED component warranty details at [atlantic-lighting.com/main/support](http://atlantic-lighting.com/main/support).

### Bridgelux Vero 18 Array Series

- 80 CRI is standard and a 90 CRI option is offered. With the 90 CRI option, lower lumen output and reduced lumens per watt will be experienced.
- Rated Life: 50,000 hours at 70% lumen maintenance (L70) when maintained in a 35°C ambient environment with open air flow. Ambient temperatures lower than 35°C may extend life.

### Electronic Driver

- 0-10V dimming to 1% (Dimming not offered with coil cord options)

### Heat Sink

- Black anodized passive heat sink designed for maximum heat dissipation.

Listed to UL 1598 and Canadian standards for Damp Location. Intended for indoor applications only. Available photometrics at [atlantic-lighting.com](http://atlantic-lighting.com).

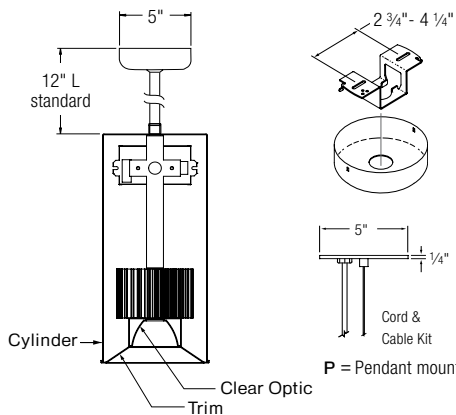
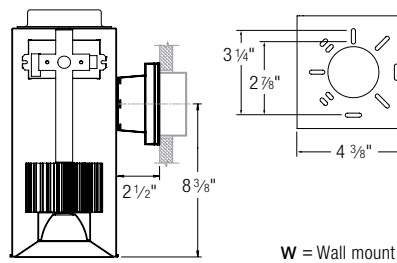
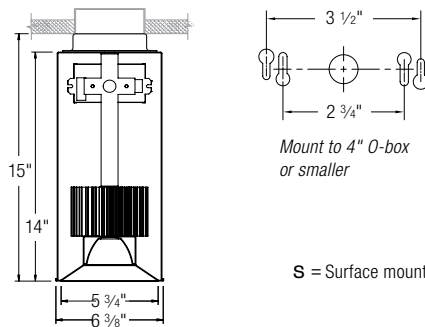
Specifications and dimensions subject to change without notice.



ATLANTIC LIGHTING

T: 508 678-5411 | F: 508 678-5408 [www.atlantic-lighting.com](http://www.atlantic-lighting.com)

020618 NP16-010



Watts*	CRI	Lumens*	
		Delivered	Adjusted
10W	80	945	800-1145
15W	80	1310	1105-1585
20W	80	1830	1550-2215
25W	80	2485	2105-3005
35W	80	3470	2935-4200
10W	90	795	670-960
15W	90	1100	930-1330
20W	90	1535	1300-1855
25W	90	2085	1765-2525
35W	90	2915	2470-3530

\* Lumens shows true delivered values for 35K color temp, adjusted shows the range from 27K-5K

## ordering data

SERIES	
SLED614	Architectural 6"x14" LED Surface mount
WLED614	Wall mount
PLED614	Pendant mount
CLED614	Cord mount, 6' standard

DISTRIBUTION	
B20	20° beam angle
B25	25° beam angle
B30	30° beam angle
B35	35° beam angle
B40	40° beam angle
B60	60° beam angle

WATTS	
VR10	10 watts
VR15	15 watts
VR20	20 watts
VR25	25 watts
VR35	35 watts

COLOR TEMPERATURE	
27K	2700K (80 CRI)
3K	3000K (80 CRI)
35K	3500K (80 CRI)
4K	4000K (80 CRI)
5K	5000K (80 CRI)

### DIMMING

0-10V DC	standard, leave box blank
2WR	2-wire, TRIAC forward-phase or ELV reverse-phase (100%-1%) (120V only)
DAL	DALI (Type 6, IEC62386) Driver; Dimming to 0.1%
DMX	DMX Driver with RDM capability; Dimming to 0.1% (not available on cord mount)
347V	Contact factory

### TRIM COLORS

WH	White
BL	Black
BR	Bronze
MS	Metallic silver
HZ	Haze clear (etched)
CC	Custom color (consult factory)

### CYLINDER FINISHES

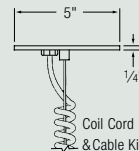
WH	White
BL	Black
BR	Bronze
MS	Metallic silver
CC	Custom color (consult factory)

### OPTIONS

9CR	90 CRI, effects lumens per watt
-----	---------------------------------

### MOUNTING OPTIONS

P18	18" pendant length
P24	24" pendant length
P36	36" pendant length
P48	48" pendant length
FC	Field cut kit
Cxx	Cord mount with custom length replace xx with length in feet
CA	Cord and cable, 6 ft. standard
CAxx	Cord and cable, custom length replace xx with length in feet
CCA	Coil cord and cable, adjustable from 2 to 8 feet in length



P/N Example: SLED614-B35-VR15-27K-WH-WH

SLED614-B35-VR15-27K-WH-WH

surface mount      watts      temp      cylinder finish  
distribution      trim      option

# ALPHA

FLOODLIGHT

Cat.#

Job

CHESTERFIELD COM

Type

L



**BEACON**  
LIGHTING

Approvals

## SPECIFICATIONS

### Intended Use:

The Alpha luminaire is a high performance LED lighting solution designed with optical versatility. It is intended to be used to reduce energy and maintenance costs associated with legacy HID lighting technology. Markets include large areas requiring perimeter lighting, security lighting, truck terminals, car lots, recreational sports lighting, airport ramp lighting, and building flood lighting.

### Construction:

- Housing, electrical compartment and fitter are all made from die case aluminum that is pre-treated and powder-coated to meet the most rugged industry standards.

### LED/Optics:

- Provides the best combination of vertical and horizontal illumination while reducing light behind the poles.
- Features revolutionary individual LED optical control based on high performance TIR optical designs.
- Features a protective lens cover.
- The precisely-designed optics result in fewer poles and fixtures that use less energy, leading to lower life-cycle costs along with lower up front installation costs.

### Electrical:

- Fixture electrical compartment contains all LED driver components and is provided with a push-button terminal block for AC power connections.
- Optional 7-pin ANSI C136.41-2013 twist-lock photo control receptacle that is compatible with ANSI C136.41 external wireless control devices.
- 20kA surge protection
- Lifesield™ Circuit - protects luminaire from excessive temperature by interfacing with the 0-10V dimmable drivers to reduce drive current as necessary. The factory-preset temperature limits are designed to ensure maximum hours of operation to assure L70 rated lumen maintenance.

### Controls/Options:

- Available with Energeni for optional set dimming, timed dimming with simple delay, or timed dimming based on time of night (see [www.beaconproducts.com/products/energeni](http://www.beaconproducts.com/products/energeni)).
- In addition, Alpha can be specified with SiteSync™ wireless control system for reduction in energy and maintenance cost while optimizing light quality 24/7. See ordering information or visit <http://www.hubbellighting.com/sitesync/> for more details

### Installation:

- Adjustable knuckle is designed to slip fit a 2 3/8" to 3" O.D. tenon.
- Specialized knuckle provides continuous aiming adjustment without the use of cast serrations.
- Luminaire can adjust from -30° to 90° from horizontal when in the upright position (only when Twist Lock photocell is not being used).
- Photo control option can only be used when fixture is aimed below horizontal position.
- The luminaire must be mounted in the upright position as pictured.

### Finish:

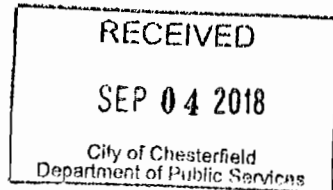
- IFS polyester powder-coat electrostatically applied and thermocured.
- IFS finish consists of a five stage pretreatment regimen with a polymer primer sealer and top coated with a thermoset super TGIC polyester powder coat finish.
- The finish meets the AAMA 2604 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds.

### Listings:

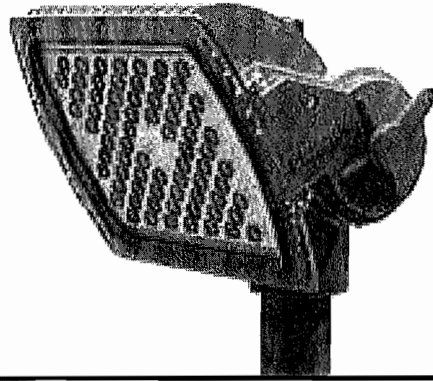
- The luminaire is NRTL certified to UL 1598 and 8750 standards for wet locations.
- CSA 22.2#250.13-14

### Warranty:

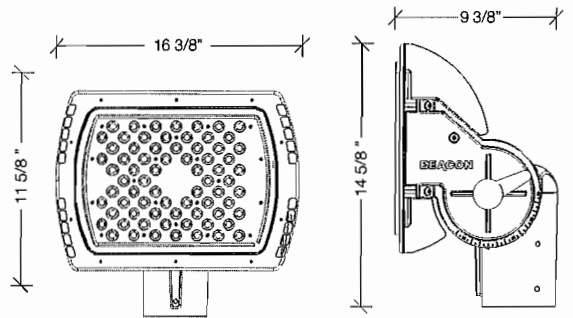
Five year limited warranty for more information visit: [www.hubbellighting.com/resources/warranty](http://www.hubbellighting.com/resources/warranty)



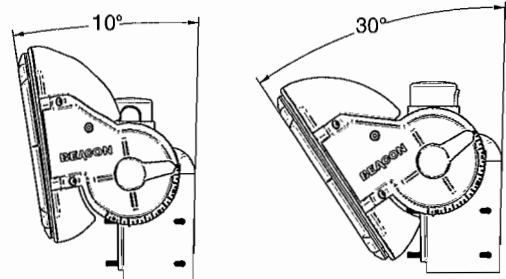
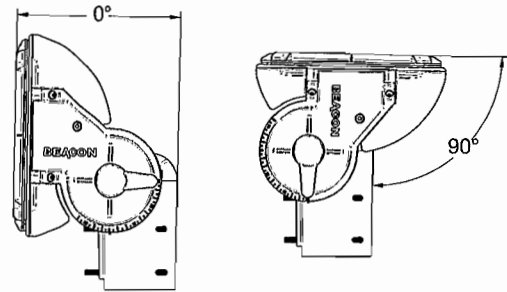
## PRODUCT IMAGE(S)



## DIMENSIONS



Standard SF3 mount  
Slips 2 3/8" to 3" O.D. Tenon



Weight:	EPA
27.0 lbs	1.32 ft <sup>2</sup>
(12.25 kg)	

## CERTIFICATIONS/LISTINGS



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**ORDERING INFORMATION** ORDERING EXAMPLE: AL-U/72L-170/5K7/4X4/UNV/PEC/SWP/FL/PM/BBT

SERIES	ENGINE-WATTS	CCT/CRI	VOLTAGE	CONTROL OPTIONS	COLOR
AL-D Alpha, down light	24L-55 55W, LED array	3K7 3000K, 70 CRI	UNV 120-277V	GENI-XX <sup>4</sup> energeni	BL Black Textured
AL-U Alpha, up light	36L-80 80W, LED array	4K7 4000K, 70 CRI	347V <sup>8</sup> 347V	SWP <sup>5,6,7</sup> SiteSync Wireless Pre-Commission	DB Dark Bronze Textured
	60L-136 136W, LED array	5K7 5000K, 70 CRI	480V <sup>8</sup> 480V		GYS Light Gray Smooth
	72L-170 170W, LED array				PS Platinum Silver Smooth
	72L-220 220W, LED array				WH White Textured
	72L-295 295W, LED array				CC Custom Color

OPTICS
2X2 narrow spot
4X4 narrow flood
5X5 medium flood
6X6 wide flood
5X3 horizontal flood
3X5 vertical flood

ELECTRICAL OPTIONS
7PR <sup>9</sup> 7-PIN Receptacle only
7PR-TL 7-PIN Receptacle w/ Twist Lock photo control
7PR-SC 7-PIN Receptacle w/ Shorting Cap
PEC photocell, button
2PF <sup>1,2</sup> dual power feed

SHIELD OPTIONS
FL full louver
FV full visor
HL half louver
HV half visor

MOUNTING OPTIONS
SF3 Fixture slip fits 2 3/8" OD tenon (tenon by others)
PM 3" pier mount (includes 2 3/8" OD tenon and mounting plate)
WM wall mount (J-arm tenon and mounting plate included)

<sup>1</sup> Not available @ 347V or 480V Input  
<sup>2</sup> Available on 24NB-55, 72NB-170, and 72NB-220 only  
<sup>3</sup> PCR-TL and PCR-SC not available on AL-U  
<sup>4</sup> When ordering Energeni, specify the routine setting code (example GENI-04). See Energeni brochure and instructions for setting table and options. Not available with sensor options.  
<sup>5</sup> Must specify group and zone information at time of order. See [www.hubbell-lighting.com/sitesync](http://www.hubbell-lighting.com/sitesync) for further details.  
<sup>6</sup> Not available with other control or sensor options.  
<sup>7</sup> Available on 72NB-170 and 72NB-220 versions only.  
<sup>8</sup> 220 versions only  
<sup>9</sup> Shorting cap, phot control, or wireless control provided by others

**PRECOMMISSIONED SITESYNC ORDERING INFORMATION:** When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group Information, and Operating schedules. For more detailed information please visit <http://www.hubbell-automation.com/products/sitesync/> or contact Hubbell Lighting tech support at (800) 345-4928.

Examples: AL-U/60NB-136/5K/4X4/UNV/PEC/SWP/FL/PM/BBT SiteSync only

Accessories and Services (Ordered Separately)

Catalog Number	Description
SWUSB*	SiteSync interface software loaded on USB flash drive for use with owner supplied PC (Windows based only). Includes SiteSync license, software and USB radio bridge node.
SWTAB*	Windows tablet and SiteSync interface software. Includes tablet with preloaded software, SiteSync license and USB radio bridge node.
SWBRG*	SiteSync USB radio bridge node only. Order if a replacement is required or if an extra bridge node is requested.
SW7PR**	SiteSync 7 Pin on fixture module On/Off/Dim, Daylight Sensor 120-480VAC

\*When ordering SiteSync at least one of these two interface options must be ordered per project.  
 + If needed, an additional Bridge Node can be ordered.  
 ++ Available as a SiteSync retrofit solution for fixtures with an existing 7pin receptacle.

**Hubbell Control Solutions - Accessories (sold separately)**

Catalog Number	Description	HCS System
NXOFM-1R1D-UNV	On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with HubbNET Radio and Bluetooth® Radio, 120-480VAC	NX Distributed Intelligence™
WIR-RME-L	On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with wiSCAPE Radio, 110-480VAC	wiSCAPE® Lighting Control

For additional information related to these accessories please visit [www.hubbellcontrolsolutions.com](http://www.hubbellcontrolsolutions.com). Options provided for use with integrated sensor, please view specification sheet ordering information table for details.

**SiteSync 7-Pin Module**



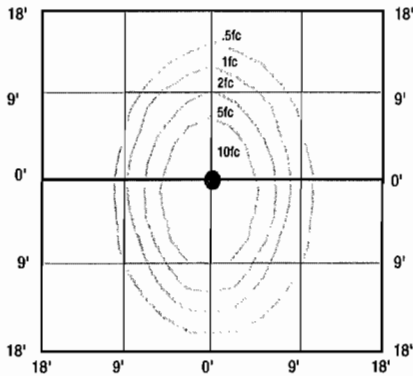
SW7PR

- All of the SiteSync Features in a new form
- Available as an accessory for new construction or retrofit applications (with existing 7-Pin receptacle)
- Available on all products that have a 7-Pin receptacle



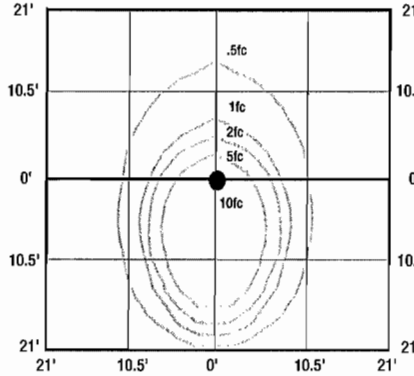
**PHOTOMETRICS**

**2x2 Narrow Spot**  
AL-U-72L-295-5K7-2X2



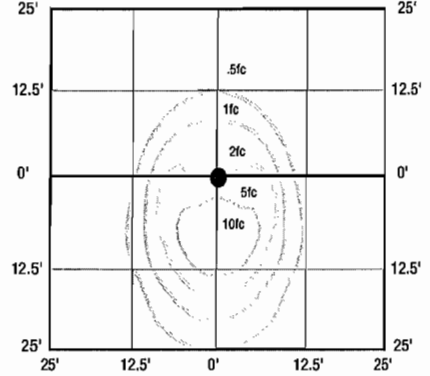
Mounting height: 20ft  
Scale (spec between gridlines): 9ft  
Set back: 22ft  
Tilt: 45 degrees

**4x4 Narrow Flood**  
AL-U-72L-295-5K7-4X4



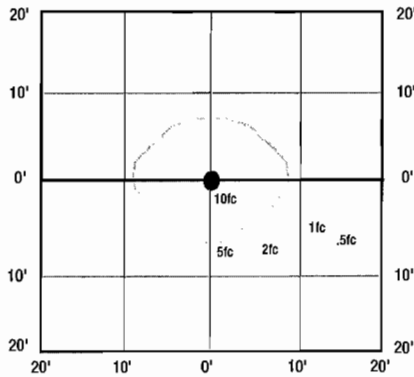
Mounting height: 20ft  
Scale (spec between gridlines): 10.5ft  
Set back: 30  
Tilt: 45 degrees

**5x5 Medium Flood**  
AL-U-72L-295-5K7-5X5



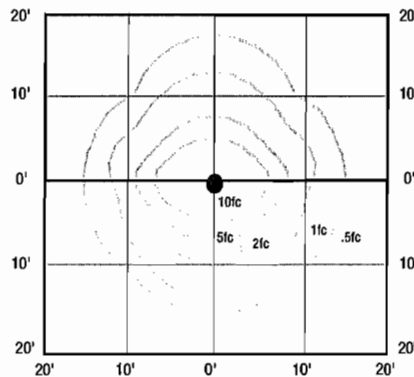
Mounting height: 20ft  
Scale (spec between gridlines): 12.5ft  
Set back: 35  
Tilt: 45 degrees

**5x3 Horizontal Flood**  
AL-U-72L-295-5K7-5X3



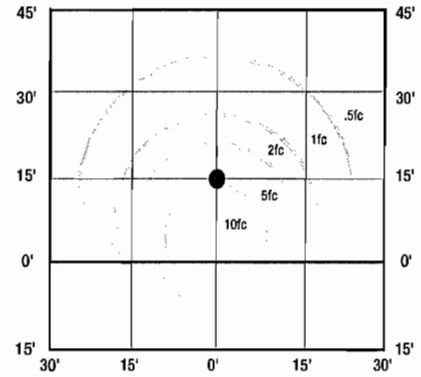
Mounting height: 20ft  
Scale (space between gridlines): 10ft  
Set back: 20  
Tilt: 45 degrees

**3x5 Vertical Flood**  
AL-U-72L-295-5K7-3X5



Mounting height: 20ft  
Scale (space between gridlines): 10ft  
Set back: 20  
Tilt: 45 degrees

**6x6 Wide Flood**  
AL-U-72L-295-5K7-6X6



Mounting height: 20ft  
Scale (space between gridlines): 15ft  
Set back: 30  
Tilt: 45 degrees





**PERFORMANCE DATA**

# LED'S	DRIVE CURRENT (MILLIAMPS)	SYSTEM WATTS 120-277V	DISTRIBUTION TYPE	FIELD ANGLE H° X V°	5K7 (5000K nominal, 70 CRI)			4K7 (4000K nominal, 70 CRI)			3K7 (3000K nominal, 70 CRI)		
					LUMENS	LPW <sup>1</sup>	MAX BEAM CANDLEPOWER	LUMENS	LPW <sup>1</sup>	MAX BEAM CANDLEPOWER	LUMENS	LPW <sup>1</sup>	MAX BEAM CANDLEPOWER
24	700mA	55W	2X2	30° X 30°	6468	113	64515	6560	114	65431	5924	103	59084
			4X4	56° X 56°	6293	109	17477	6382	110	17725	5763	100	16006
			5X5	92° X 92°	6008	104	6042	6093	106	6127	5502	95	5533
			6X6	107° X 107°	6472	112	4258	6564	114	4318	5927	103	2899
			5X3	44° X 71°	5796	100	14539	5878	102	14745	5308	92	13314
36	700mA	80W	3X5	71° X 47°	5826	101	13667	5909	103	13862	5335	93	12517
			2X2	30° X 30°	9702	120	96773	9840	122	98147	8885	110	88627
			4X4	56° X 56°	9440	116	26216	9574	109	26588	8645	106	24009
			5X5	92° X 92°	9012	111	9062	9140	113	9191	8253	102	8299
			6X6	107° X 107°	9708	120	6387	9846	121	6478	8891	110	5849
60	700mA	136W	5X3	44° X 71°	8694	107	21808	8818	109	22117	7962	98	19972
			3X5	71° X 47°	8739	108	20501	8863	110	20793	8003	99	18779
			2X2	30° X 30°	16170	119	121289	16400	121	163579	14809	109	147712
			4X4	56° X 56°	15733	115	43694	15956	116	44314	14408	105	40016
			5X5	92° X 92°	15020	110	15104	15233	111	15319	13755	100	13833
72	700mA	170W	6X6	107° X 107°	16180	118	10645	16409	120	10796	14818	108	9749
			5X3	44° X 71°	14490	106	36347	14696	107	36863	13270	97	33287
			3X5	71° X 47°	14565	107	34169	14772	108	34655	13339	98	31293
			2X2	30° X 30°	19404	113	193547	19680	115	196295	17771	104	177254
			4X4	56° X 56°	18879	110	52433	19147	111	53177	17290	100	48019
72	875mA	220W	5X5	92° X 92°	18023	105	18125	18279	106	18382	16506	96	16599
			6X6	107° X 107°	19416	113	12774	19691	114	12956	17781	103	11699
			5X3	44° X 71°	17388	101	43616	17635	102	44235	15925	92	39944
			3X5	71° X 47°	17478	102	41003	17726	103	41586	16006	93	37552
			2X2	30° X 30°	23227	107	231671	23532	109	234723	21250	98	211954
72	1150mA	295W	4X4	56° X 56°	22592	104	62743	22889	105	63570	20669	95	57404
			5X5	92° X 92°	21580	100	21702	21864	101	21988	19743	91	19855
			6X6	107° X 107°	22541	102	15924	22838	103	16135	20622	93	14569
			5X3	44° X 71°	20816	98	52213	21090	97	52900	19044	88	47769
			3X5	71° X 47°	20923	97	49085	21198	99	49732	19142	89	44908
72	1150mA	295W	2X2	30° X 30°	28050	95	279780	28050	95	279780	28050	95	279780
			4X4	56° X 56°	27290	92	75794	27290	92	75794	27290	92	75794
			5X5	92° X 92°	26054	88	26201	26054	88	26201	26054	88	26201
			6X6	107° X 107°	26687	90	18854	26687	90	18853	26687	90	18854
			5X3	44° X 71°	25180	85	59546	25538	86	60392	22218	75	52541
3X5	71° X 47°	25180	85	59546	25538	86	60392	22218	75	52541			

<sup>1</sup>Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.



## ELECTRICAL DATA

# OF LEDS	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (W)	CURRENT (Amps)
24	2	700 mA	120	55	0.55
			277		0.24
			347		0.19
			480		0.14
36	1	700 mA	120	80	0.80
			277		0.35
			347		0.27
			480		0.20
60	1	700 mA	120	136	1.36
			277		0.59
			347		0.47
			480		0.34
72	2	700 mA	120	170	1.70
			277		0.74
			347		0.59
			480		0.43
72	2	875 mA	120	220	2.20
			277		0.95
			347		0.76
			480		0.55
72	2	1150mA	120	295	2.95
			277		1.28
			347		1.02
			480		0.74

## PROJECTED LUMEN MAINTENANCE

AMBIENT TEMP.	0	25,000	50,000	TM-21-11 60,000	100,000	Calculated L70 (HOURS)
25°C / 77°C	1.00	0.97	0.95	0.95	0.92	>470,000

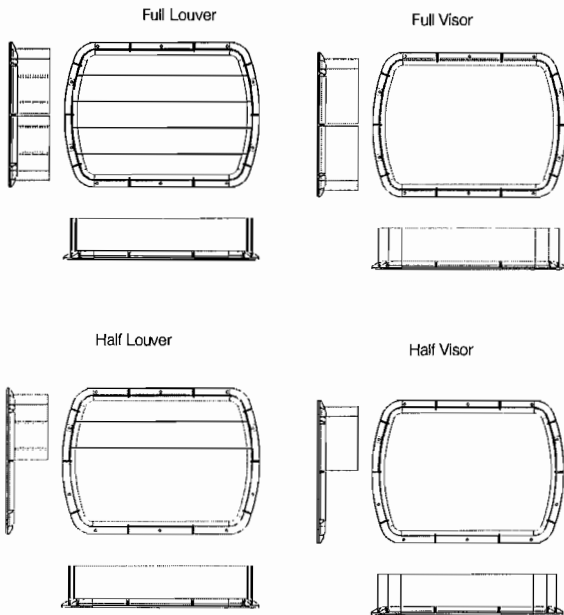
<sup>1</sup> Projected per IESNA TM-21-11

Data references the extrapolated performance projections for the base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.

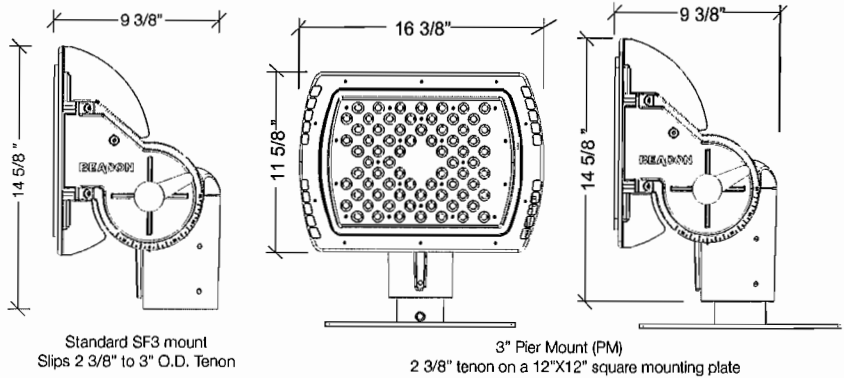
AMBIENT TEMPERATURE		LUMEN MULTIPLIER
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.98
40°C	104°F	0.98

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

## SHIELD OPTIONS



## MOUNTING OPTIONS



Standard SF3 mount  
Slips 2 3/8" to 3" O.D. Tenon

3" Pier Mount (PM)  
2 3/8" tenon on a 12"X12" square mounting plate

J-arm is mounted to the plate and included (hardware to attach fixture to the J-arm is included but hardware not included to attach to the wall)

Mounting plate provided with (4), pre-drilled, 3/8" diameter holes.



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# VIPER L

# STRIKE

LARGE VIPER LUMINAIRE

Cat.#

Job

CHESTERFIELD COM

Type

S3



Approvals

## SPECIFICATIONS

### Intended Use:

The Beacon Viper luminaire is available in two sizes with a wide choice of different LED wattage configurations and optical distributions designed to replace HID lighting up to 1000W MH or HPS. Luminaires are suitable for wet locations.

### Construction:

- Manufactured with die cast aluminum.
- Coated with a polyester finish that meets ASTM B117 corrosion test requirements and ASTM D522 cracking and loss of adhesion test requirements.
- External hardware is corrosion resistant.
- One piece optical cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel.
- Cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system.
- Two-piece silicone and microcellular polyurethane foam gasket ensures a weather-proof seal around each individual optic.

### Electrical:

- Luminaire accepts 100V through 277V, 50 Hz to 60 Hz (UNV), 347V, or 480V input.
- Power factor is  $\geq .90$  at full load.
- Dimming drivers are standard, but must contact factory to request wiring leads for purpose of external dimming controls.
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is certified by UL for use at 600VAC at 90°C or higher.
- Plug disconnects are certified by UL for use at 600 VAC, 13A or higher. 13A rating applies to primary (AC) side only.
- Fixture electrical compartment shall contain all LED driver components and shall be provided with a push-button terminal block for AC power connections.
- Optional 7-pin ANSI C136.41-2013 twist-lock photo control receptacle available. Compatible with ANSI C136.41 external wireless control devices.
- Ambient operating temperature -40°C to 40°C
- Surge protection - 20kA.
- Lifeshield™ Circuit - protects luminaire from excessive temperature. The device shall activate at a specific, factory-preset temperature, and progressively reduce power over a finite temperature range. Operation shall be smooth and undetectable to the eye. Thermal circuit is designed to "fail on", allowing the luminaire to revert to full power in the event of an interruption of its power supply, or faulty wiring connection to the drivers. The device shall be able to co-exist with other 0-10V control devices (occupancy sensors, external dimmers, etc.).

### Controls/Options:

- Available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the motion response system reduces the wattage to factory preset level, reducing the light level accordingly. When motion is detected by the PIR sensor, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from standard configuration.
- Available with Energeni for optional set dimming, timed dimming with simple delay, or timed dimming based on time of night (see [www.beaconproducts.com/products/energeni](http://www.beaconproducts.com/products/energeni)).
- In addition, Viper can be specified with SiteSync™ wireless control system for reduction in energy and maintenance costs while optimizing light quality 24/7. For more details, see ordering information or visit: [www.hubbelling.com/sitesync](http://www.hubbelling.com/sitesync)

### Installation:

- Mounting options for horizontal arm, vertical tenon or traditional arm mounting available. Mounting hardware included.

### Finish:

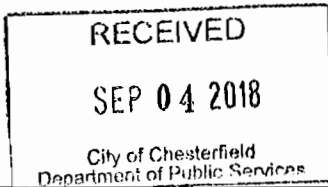
- IFS polyester powder-coat electrostatically applied and thermocured. IFS finish consists of a five stage pretreatment regimen with a polymer primer sealer and top coated with a thermoset super TGIC polyester powder coat finish.
- The finish meets the AAMA 2604 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds.

### Certifications/Ratings:

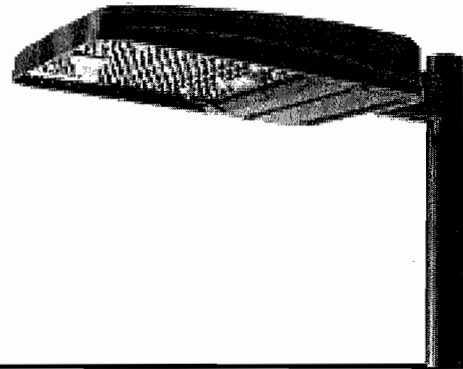
- DesignLights Consortium (DLC) qualified, consult DLC website for more details: <http://www.designlights.org/QPL>.
- Certified to UL 1598, UL 8750, and CSA C22.2
- 3G rated for ANSI C136.31 high vibration applications with MAF mounting
- IDA approved
- This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: [http://www.beaconproducts.com/products/viper\\_large](http://www.beaconproducts.com/products/viper_large)

### Warranty:

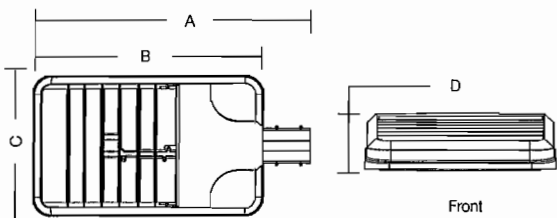
Five year limited warranty for more information visit: [www.hubbelling.com/resources/warranty](http://www.hubbelling.com/resources/warranty)



## PRODUCT IMAGE(S)

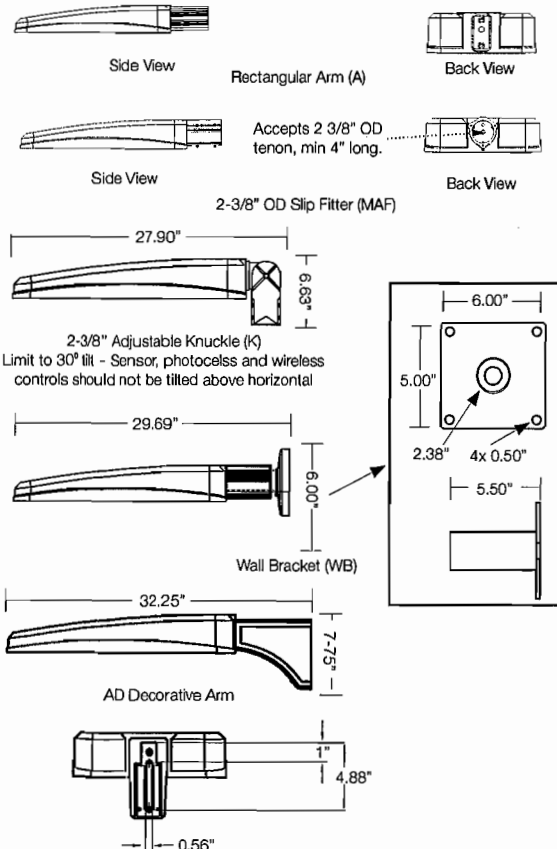


## DIMENSIONS



A	B	C	D	Weight:	EPA
29.9"	24.19"	14.25"	4.13"	25.0 lbs	1.2 ft <sup>2</sup>
(741 mm)	(614 mm)	(362 mm)	(105 mm)	(11.3 kg)	

## MOUNTING OPTIONS



## CERTIFICATIONS/LISTINGS



\*3000K and warmer CCTs only



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<b>VPL</b>							
SERIES	LED ENGINE	CCT/CRI <sup>7</sup>	ROTATION	VOLTAGE	COLOR	OPTIONS	
VPL Viper	64L-135 135W LED array 80L-180 180W LED array 80L-235 235W LED array 96L-220 220W LED array 96L-280 280W LED array 96L-315 315W LED array 96L-395 395W LED array	3K7 3000K, 70 CRI 4K7 4000K, 70 CRI 5K7 5000K, 70 CRI	Leave blank for no rotation L <sup>S</sup> Optic rotation left R <sup>S</sup> Optic rotation right	UNV 120-277V 120 120V 208 208V 240 240V 277 277V 347 347V 480 480V	BL Black Textured DB Dark Bronze Textured GYS Light Gray Smooth PS Platinum Silver Smooth WH White Textured CC Custom Color	F Fusing BSP Bird Spikes BC Backshield (available for FR, 2, 3, 4, 4W Optics)	

DISTRIBUTION
FR Type 1/Front Row
2 Type 2
3 Type 3
4 Type 4
4W Type 4 Wide
5QM Type 5QM
5QN Type 5QN
5R Type 5R (rectangular)
5W Type 5W (round wide)
TC Tennis Court

MOUNTING
A Rectangular Arm (formerly RA) for square or round pole
MAF Mast Arm Fitter (formerly SF2) for 2-3/8" OD horizontal arm
K Knuckle (formerly PK2) limit to 30° tilt or 2-3/8" OD horizontal arm or vertical tenon
WB Wall Bracket
AD Universal Arm for square pole
AD3 Universal Arm for 2.4"-4.1" round pole
AD4 Universal Arm for 4.2"-5.3" round pole
AD5 Universal Arm for 5.5"-5.9" round pole
AD6 Universal Arm for 6.0"-6.5" round pole

CONTROL OPTIONS
7PR 7-Pin Receptacle only (shorting cap, photo control, or wireless control provided by others)
7PR-SC 7-Pin Receptacle w/Shorting Cap
7PR-TL 7-Pin Receptacle w/Twist Lock photo control
SCP/_F <sup>1,2,6</sup> Programmable Occupancy Sensor w/daylight control (120-277 volts only)
GENI-XX <sup>3</sup> ENERGENI
SWP <sup>1,4</sup> SiteSync Pre-Commission
SWPM <sup>1,2,4</sup> SiteSync Pre-Commission w/ Sensor

HOUSE SIDE SHIELD ACCESSORIES
HSS/EVP-L/90-FB/XXX 90° shield front or back
HSS/EVP-L/90-LR/XXX 90° shield left or right
HSS/EVP-L/270-FB/XXX 270° shield front or back
HSS/EVP-L/270-LR/XXX 270° shield left or right
HSS/EVP-L/360/XXX Full shield

(Replace XXX with notation for desired finish color)  
(Refer to page 5 for shield images)

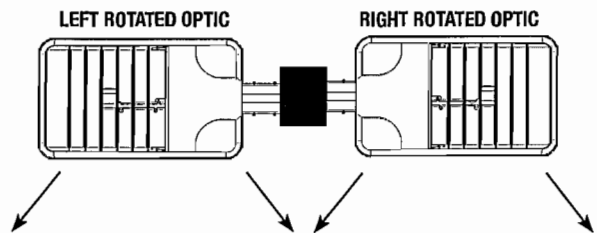
MOUNTING ACCESSORIES
VPL-AD-RPA3 2.4"-4.1" Round Pole Adapter for AD arm
VPL-AD-RPA4 4.2"-5.3" Round Pole Adapter for AD arm
VPL-AD-RPA5 5.5"-5.9" Round Pole Adapter for AD arm
VPL-AD-RPA6 6.0"-6.5" Round Pole Adapter for AD arm

<sup>1</sup> Not available with other wireless control or sensor options  
<sup>2</sup> Specify mounting height; 8 = 8' or less, 40 = 9' to 40'  
<sup>3</sup> Specify routine setting code (example GENI-04). See ENERGENI brochure and instructions for setting table end options. Not available with sensor or SiteSync options.  
<sup>4</sup> Specify group and zone at time of order. See www.hubbelllighting.com/sitesync for further details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node  
<sup>5</sup> Only available with FR, 2, 3, 4, 4W and 5R distributions  
<sup>6</sup> Order at least one SCP-REMOTE per project location to program and control the occupancy sensor  
<sup>7</sup> This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: [http://cdn.beaconproducts.com/content/products/specs/specs\\_files/Viper\\_Large\\_LED\\_turtle\\_spec\\_sheet.pdf](http://cdn.beaconproducts.com/content/products/specs/specs_files/Viper_Large_LED_turtle_spec_sheet.pdf)

**PRECOMMISSIONED SITESYNC ORDERING INFORMATION:** When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group Information, and Operating schedules. For more detailed information please visit [www.hubbell-automation.com/products/sitesync/](http://www.hubbell-automation.com/products/sitesync/) or contact Hubbell Lighting tech support at (800) 345-4928.

SiteSync fixtures with Motion control (SWPM) require the mounting height of the fixture for selection of the lens.

Examples: VP-L/80L-235/4K7/3/UNV/A/DB/SWP/ SiteSync only  
 VP-L/80L-235/4K7/3/UNV/A/DB/SWPM-40F/ SiteSync with Motion Control



**Accessories and Services (Ordered Separately)**

Catalog Number	Description
SCP-REMOTE	Remote Control for SCP/_F option. Order at least one per project to program and control the occupancy sensor
SWUSB*	SiteSync interface software loaded on USB flash drive for use with owner supplied PC (Windows based only). Includes SiteSync license, software and USB radio bridge node
SWTAB*	Windows tablet and SiteSync interface software. Includes tablet with preloaded software, SiteSync license and USB radio bridge node.
SWBRG	SiteSync USB radio bridge node only. Order if a replacement is required or if an extra bridge node is requested.
SW7PR*	SiteSync 7 Pin on fixture module On/Off/Dim, Daylight Sensor 120-480VAC

\* When ordering SiteSync at least one of these two interface options must be ordered per project.  
 + Available as a SiteSync retrofit solution for fixtures with an existing 7pin receptacle.

**Hubbell Control Solutions - Accessories (sold separately)**

Catalog Number	Description	HCS System
NXOFM-1R10-UNV	On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with HubbNET Radio and Bluetooth® Radio, 120-480VAC	NX Distributed Intelligence™
WIR-RME-L	On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with wiSCAPE Radio, 110-480VAC	wiSCAPE® Lighting Control

For additional information related to these accessories please visit [www.hubbellcontrolsolutions.com](http://www.hubbellcontrolsolutions.com). Options provided for use with integrated sensor, please view specification sheet ordering information table for details.

**SiteSync 7-Pin Module**



- SiteSync features in a new form
- Available as an accessory for new construction or retrofit applications (with existing 7-Pin receptacle)
- Does no interface with occupancy sensors



**PERFORMANCE DATA**

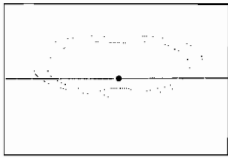
# LED'S	DRIVE CURRENT (MILLIAMPS)	SYSTEM WATTS	DISTRIBUTION TYPE	5K (5000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)					3K (3000K nominal, 70 CRI)				
				LUMENS	LPW <sup>1</sup>	B	U	G	LUMENS	LPW <sup>1</sup>	B	U	G	LUMENS	LPW <sup>1</sup>	B	U	G
				1A	18220	132	2	0	2	18783	137	2	0	2	16341	119	2	0
2	17228	125	2	0	2	17761	129	2	0	2	15452	112	2	0	2			
3	17257	125	2	0	3	17791	129	2	0	3	15478	112	2	0	3			
4	16864	123	1	0	4	17386	126	1	0	4	15125	110	1	0	3			
4W	16648	112	2	0	4	17163	115	2	0	4	14931	100	2	0	4			
5QM	17259	125	4	0	2	17792	129	4	0	2	15479	112	4	0	2			
5QN	18023	131	4	0	0	18580	135	4	0	0	16165	117	4	0	0			
5R	17410	127	4	0	4	17948	130	4	0	4	15615	113	4	0	4			
5W	16498	120	4	0	2	17009	124	4	0	3	14797	108	4	0	2			
TC	15925	110	2	1	2	16417	113	2	1	2	14283	98	1	1	2			
1A	23230	128	2	0	2	23948	132	2	0	2	20835	115	2	0	2			
2	21965	121	3	0	3	22645	125	3	0	3	19701	109	2	0	3			
3	22003	121	2	0	4	22683	125	3	0	4	19734	109	2	0	4			
4	21502	119	2	0	4	22167	122	2	0	4	19285	106	2	0	4			
4W	20810	112	2	0	4	21627	116	2	0	4	18664	100	2	0	4			
5QM	22005	121	4	0	2	22686	125	4	0	2	19736	109	4	0	2			
5QN	22979	127	4	0	1	23689	131	4	0	1	20610	114	4	0	0			
5R	22197	122	4	0	4	22884	126	4	0	4	19909	110	4	0	4			
5W	21035	116	5	0	3	21686	120	5	0	3	18867	104	4	0	3			
TC	19906	110	2	1	2	20522	113	2	1	2	17854	98	2	1	2			
1A	27849	121	2	0	2	28711	125	2	0	2	24978	108	2	0	2			
2	26334	114	3	0	3	27148	118	3	0	4	23619	102	3	0	3			
3	26378	114	3	0	4	27194	118	3	0	4	23659	103	3	0	4			
4	25777	112	2	0	4	26575	115	2	0	5	23120	100	2	0	4			
4W	25109	106	2	0	5	25886	109	2	0	5	22521	95	2	0	5			
5QM	26381	114	4	0	2	27196	118	4	0	2	23661	103	4	0	2			
5QN	27548	119	5	0	1	28400	123	5	0	1	24708	107	5	0	1			
5R	26611	115	5	0	5	27434	119	5	0	5	23868	104	4	0	4			
5W	25218	109	5	0	3	25998	113	5	0	3	22619	98	5	0	3			
TC	23864	103	2	1	2	24602	107	2	1	2	21404	93	2	1	2			
1A	27876	128	2	0	2	28738	132	2	0	2	25002	115	2	0	2			
2	26359	121	3	0	3	27174	125	3	0	4	23641	109	3	0	3			
3	26403	121	3	0	4	27220	125	3	0	4	23681	109	3	0	4			
4	25802	119	2	0	4	26600	122	2	0	5	23142	106	2	0	4			
4W	24651	113	3	0	5	25413	117	3	0	5	22109	102	2	0	4			
5QM	26406	121	4	0	2	27222	125	4	0	2	23684	109	4	0	2			
5QN	27575	127	5	0	1	28427	131	5	0	1	24732	114	5	0	1			
5R	26637	122	5	0	5	27460	126	5	0	5	23891	110	4	0	4			
5W	25242	116	5	0	3	26023	120	5	0	3	22640	104	5	0	3			
TC	23887	110	2	1	2	24626	113	2	1	2	21424	98	2	1	2			
1A	33419	121	3	0	2	34453	125	3	0	2	29974	108	2	0	2			
2	31600	114	3	0	4	32577	118	3	0	4	28342	102	3	0	4			
3	31654	114	3	0	5	32633	118	3	0	5	28390	103	3	0	4			
4	30933	112	2	0	5	31889	115	2	0	5	27744	100	2	0	5			
4W	30131	106	3	0	5	31063	109	3	0	5	27025	95	3	0	5			
5QM	31657	114	5	0	3	32636	118	5	0	3	28393	103	4	0	2			
5QN	33058	119	5	0	1	34080	123	5	0	1	29650	101	5	0	1			
5R	31933	115	5	0	5	32921	119	5	0	5	28641	104	5	0	5			
5W	30262	109	5	0	4	31198	113	5	0	4	27142	98	5	0	3			
TC	28642	104	2	1	3	29528	107	2	1	3	25690	93	2	1	3			
1A	35666	113	3	0	2	36769	117	3	0	2	31989	101	2	0	2			
2	33725	107	3	0	4	34768	110	3	0	4	30248	96	3	0	4			
3	33782	107	3	0	5	34827	110	3	0	5	30299	96	3	0	4			
4	33012	105	2	0	5	34033	108	2	0	5	29609	94	2	0	5			
4W	32158	106	3	0	5	33153	109	3	0	5	28842	95	3	0	5			
5QM	33785	107	5	0	3	34830	110	5	0	3	30302	96	5	0	2			
5QN	35280	112	5	0	1	36371	115	5	0	1	31643	100	5	0	1			
5R	34080	108	5	0	5	35134	111	5	0	5	30567	97	5	0	5			
5W	32302	102	5	0	4	33301	106	5	0	4	28972	92	5	0	4			
TC	30568	97	2	1	3	31513	100	3	1	3	27416	87	2	1	3			
1A	39569	101	3	0	4	43125	110	3	0	4	37518	96	3	0	2			
2	39569	101	3	0	4	40793	104	3	0	4	35490	91	3	0	4			
3	39619	101	3	0	5	40845	104	3	0	5	35535	91	3	0	5			
4	38723	98	3	0	5	39921	101	3	0	5	34731	88	2	0	5			
4W	37720	106	3	0	5	38887	109	3	0	5	33831	95	3	0	5			
5QM	39623	101	5	0	3	40848	104	5	0	3	35538	90	5	0	3			
5QN	41394	105	5	0	1	42675	109	5	0	1	37127	95	5	0	1			
5R	39969	102	5	0	5	41205	105	5	0	5	35848	91	5	0	5			
5W	37877	97	5	0	4	39048	100	5	0	4	33986	87	5	0	4			
TC	35850	90	3	1	3	36959	93	3	1	3	32154	81	3	1	3			

<sup>1</sup>Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.  
<sup>2</sup> 315W and 395W 3000K versions are not DLC QPL listed. Reference highlighted cells in table.

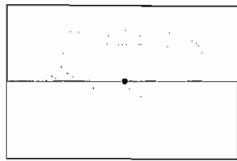


## PHOTOMETRICS

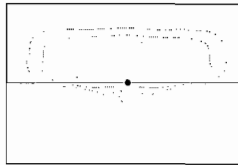
Type FR - Front Row/Auto Optic



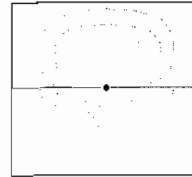
Type 2



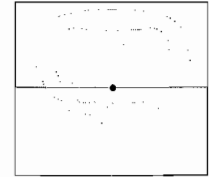
Type 3



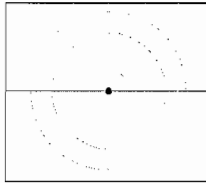
Type 4



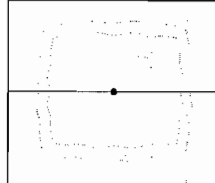
Type 4W



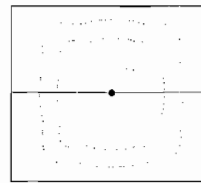
Type 5W



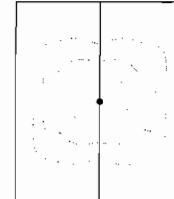
Type 5QN



Type 5QM



Type 5R



## ELECTRICAL DATA

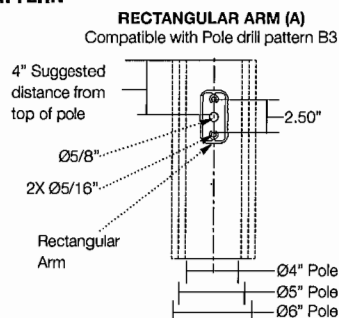
# OF LEDs	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (w)	CURRENT (Amps)
64	1	625 mA	120	135	1.4
			277		0.6
			347		0.5
			480		0.3
80	2	700 mA	120	180	1.8
			277		0.8
			347		0.6
			480		0.5
80	2	875 mA	120	235	2.4
			277		1.0
			347		0.8
			480		0.6
96	2	700 mA	120	220	2.2
			277		1.0
			347		0.8
			480		0.6
96	2	875 mA	120	280	2.8
			277		1.2
			347		1.0
			480		0.7
96	2	1000 mA	120	315	3.2
			277		1.4
			347		1.1
			480		0.8
96	2	1225 mA	120	395	4.0
			277		1.7
			347		1.4
			480		1.0

## PROJECTED LUMEN MAINTENANCE

AMBIENT TEMP.	0	25,000	50,000	TM-21-11 60,000	100,000	Calculated L70 (HOURS)
25°C / 77°C	1	0.98	0.97	0.97	0.96	>377,000

<sup>1</sup> Projected per IESNA TM-21-11  
Data references the extrapolated performance projections for the 700mA base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.

## DRILL PATTERN



## EPA

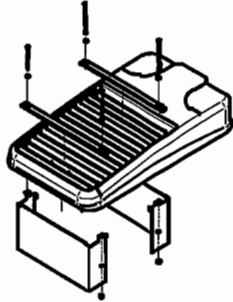
Config.	EPA	Config.	EPA
1	1.2	3 @ 120°	3.0
2 @ 90°	1.9	3 @ 90°	3.1
2 @ 180°	2.4	4 @ 90°	3.8



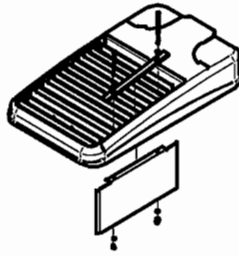
**TENON TOP POLE BRACKET ACCESSORIES (Order Separately)**  
(2 3/8" OD tenon)

Catalog Number	Description
SETAVP-XX	Square tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
RETAVP-XX	Round tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
TETAVP-XX	Hexagonal tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
SETA2XX	Square tenon adapter (4 at 90°) for AD - Universal Arm mounting option only
RETA2XX	Round tenon adapter (4 at 90°) for AD3 - Universal Arm mounting option only
TETA2XX	Hexagonal tenon adapter (3 at 120°) for AD - Universal Arm mounting option only

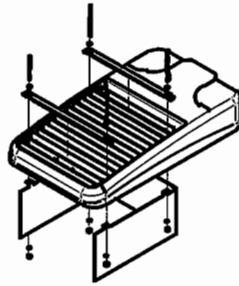
**HOUSE SIDE SHIELD FIELD INSTALL ACCESSORIES**



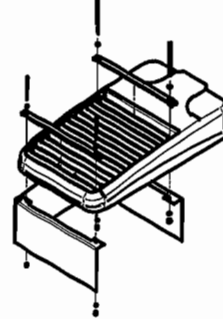
**HSS/EVP-L/90-FB/XXX**  
90° shield front or back  
(2 shields shown)



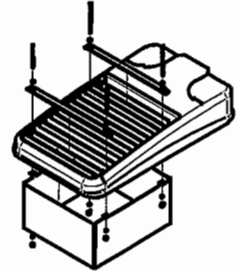
**HSS/EVP-L/90-LR/XXX**  
90° shield left or right  
(1 shield shown in left orientation)



**HSS/EVP-L/270-FB/XXX**  
270° shield front or back  
(1 shield shown in back orientation)



**HSS/EVP-L/270-LR/XXX**  
270° shield left or right  
(1 shield shown in right orientation)

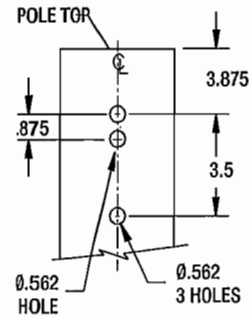
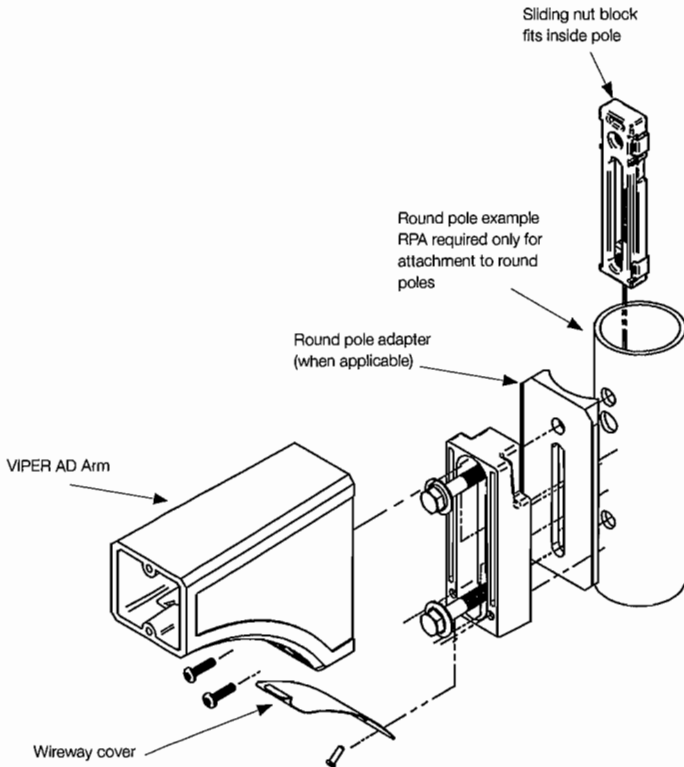


**HSS/EVP-L/360/XXX**  
Full shield  
(1 shield shown)

**AD ARM MOUNTING INSTRUCTIONS**

**DECORATIVE ARM (AD)**

Compatible with pole drill pattern S2



# VIPER L

# STRIKE

LARGE VIPER LUMINAIRE

Cat.#

Job

CHESTERFIELD COM

Type

S4



Approvals

## SPECIFICATIONS

### Intended Use:

The Beacon Viper luminaire is available in two sizes with a wide choice of different LED wattage configurations and optical distributions designed to replace HID lighting up to 1000W MH or HPS. Luminaires are suitable for wet locations.

### Construction:

- Manufactured with die cast aluminum.
- Coated with a polyester finish that meets ASTM B117 corrosion test requirements and ASTM D522 cracking and loss of adhesion test requirements.
- External hardware is corrosion resistant.
- One piece optical cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel.
- Cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system.
- Two-piece silicone and microcellular polyurethane foam gasket ensures a weather-proof seal around each individual optic.

### Electrical:

- Luminaire accepts 100V through 277V, 50 Hz to 60 Hz (UNV), 347V, or 480V input.
- Power factor is  $\geq .90$  at full load.
- Dimming drivers are standard, but must contact factory to request wiring leads for purpose of external dimming controls.
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is certified by UL for use at 600VAC at 90°C or higher.
- Plug disconnects are certified by UL for use at 600 VAC, 13A or higher. 13A rating applies to primary (AC) side only.
- Fixture electrical compartment shall contain all LED driver components and shall be provided with a push-button terminal block for AC power connections.
- Optional 7-pin ANSI C136.41-2013 twist-lock photo control receptacle available. Compatible with ANSI C136.41 external wireless control devices.
- Ambient operating temperature -40°C to 40°C
- Surge protection - 20kA.
- Lifeshield™ Circuit - protects luminaire from excessive temperature. The device shall activate at a specific, factory-preset temperature, and progressively reduce power over a finite temperature range. Operation shall be smooth and undetectable to the eye. Thermal circuit is designed to "fail on", allowing the luminaire to revert to full power in the event of an interruption of its power supply, or faulty wiring connection to the drivers. The device shall be able to co-exist with other 0-10V control devices (occupancy sensors, external dimmers, etc.).

### Controls/Options:

- Available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the motion response system reduces the wattage to factory preset level, reducing the light level accordingly. When motion is detected by the PIR sensor, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from standard configuration.
- Available with Energeni for optional set dimming, timed dimming with simple delay, or timed dimming based on time of night (see [www.beaconproducts.com/products/energeni](http://www.beaconproducts.com/products/energeni)).
- In addition, Viper can be specified with SiteSync™ wireless control system for reduction in energy and maintenance costs while optimizing light quality 24/7. For more details, see ordering information or visit: [www.hubbellighting.com/sitesync](http://www.hubbellighting.com/sitesync)

### Installation:

- Mounting options for horizontal arm, vertical tenon or traditional arm mounting available. Mounting hardware included.

### Finish:

- IFS polyester powder-coat electrostatically applied and thermocured. IFS finish consists of a five stage pretreatment regimen with a polymer primer sealer and top coated with a thermoset super TGIC polyester powder coat finish.
- The finish meets the AAMA 2604 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds.

### Certifications/Ratings:

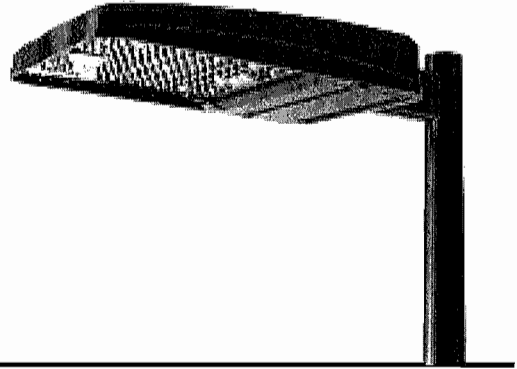
- DesignLights Consortium (DLC) qualified, consult DLC website for more details: <http://www.designlights.org/DQL>.
- Certified to UL 1598, UL 8750, and CSA C22.2
- 3G rated for ANSI C136.31 high vibration applications with MAF mounting
- IDA approved
- This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: [http://www.beaconproducts.com/products/viper\\_large](http://www.beaconproducts.com/products/viper_large)

### Warranty:

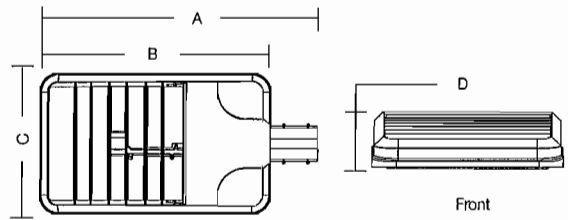
Five year limited warranty for more information visit: [www.hubbellighting.com/resources/warranty](http://www.hubbellighting.com/resources/warranty)



## PRODUCT IMAGE(S)

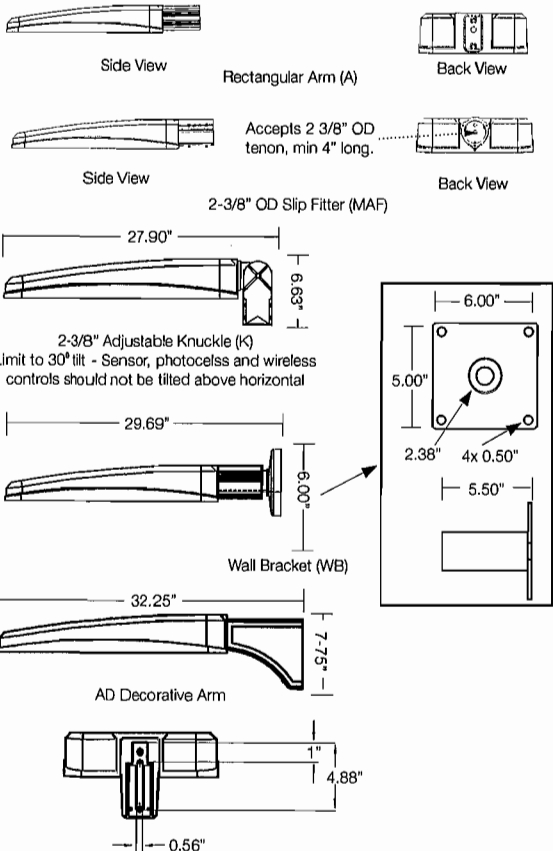


## DIMENSIONS



A	B	C	D	Weight:	EPA
29.9"	24.19"	14.25"	4.13"	25.0 lbs	1.2 ft <sup>2</sup>
(741 mm)	(614 mm)	(362 mm)	(105 mm)	(11.3 kg)	

## MOUNTING OPTIONS



## CERTIFICATIONS/LISTINGS



\*3000K and warmer CCTs only



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<b>VPL</b>							
SERIES	LED ENGINE	CCT/CRI <sup>7</sup>	ROTATION	VOLTAGE	COLOR	OPTIONS	
VPL Viper	64L-135 135W LED array 80L-180 180W LED array 80L-235 235W LED array 96L-220 220W LED array 96L-280 280W LED array 96L-315 315W LED array 96L-395 395W LED array	3K7 3000K, 70 CRI 4K7 4000K, 70 CRI 5K7 5000K, 70 CRI	Leave blank for no rotation L <sup>S</sup> Optic rotation left R <sup>S</sup> Optic rotation right	UNV 120-277V 120 120V 208 208V 240 240V 277 277V 347 347V 480 480V	BL Black Textured DB Dark Bronze Textured GYS Light Gray Smooth PS Platinum Silver Smooth WH White Textured CC Custom Color	F Fusing BSP Bird Spikes BC Backshield (available for FR, 2, 3, 4, 4W Optics)	

**DISTRIBUTION**

- FR Type 1/Front Row
- 2 Type 2
- 3 Type 3
- 4 Type 4
- 4W Type 4 Wide
- 5QM Type 5QM
- 5QN Type 5QN
- 5R Type 5R (rectangular)
- 5W Type 5W (round wide)
- TC Tennis Court

**MOUNTING**

- A Rectangular Arm (formerly RA) for square or round pole
- MAF Mast Arm Fitter (formerly SF2) for 2-3/8" OD horizontal arm
- K Knuckle (formerly PK2) limit to 30° tilt or 2-3/8" OD horizontal arm or vertical tenon
- WB Wall Bracket
- AD Universal Arm for square pole
- AD3 Universal Arm for 2.4"-4.1" round pole
- AD4 Universal Arm for 4.2"-5.3" round pole
- AD5 Universal Arm for 5.5"-5.9" round pole
- AD6 Universal Arm for 6.0"-6.5" round pole

**CONTROL OPTIONS**

- 7PR 7-Pin Receptacle only (shorting cap, photo control, or wireless control provided by others)
- 7PR-SC 7-Pin Receptacle w/Shorting Cap
- 7PR-TL 7-Pin Receptacle w/Twist Lock photo control
- SCP/\_F<sup>1,2,8</sup> Programmable Occupancy Sensor w/daylight control (120-277 volts only)
- GENI-XX<sup>3</sup> ENERGENI
- SWP<sup>1,4</sup> SiteSync Pre-Commission
- SWPM<sup>1,2,4</sup> SiteSync Pre-Commission w/ Sensor

**HOUSE SIDE SHIELD ACCESSORIES**

- HSS/EVP-L/90-FB/XXX 90° shield front or back
- HSS/EVP-L/90-LR/XXX 90° shield left or right
- HSS/EVP-L/270-FB/XXX 270° shield front or back
- HSS/EVP-L/270-LR/XXX 270° shield left or right
- HSS/EVP-L/360/XXX Full shield

(Replace XXX with notation for desired finish color)  
(Refer to page 5 for shield images)

**MOUNTING ACCESSORIES**

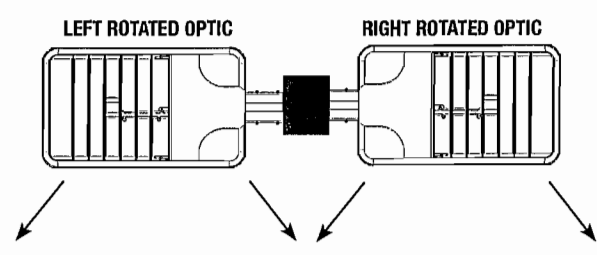
- VPL-AD-RPA3 2.4"-4.1" Round Pole Adapter for AD arm
- VPL-AD-RPA4 4.2"-5.3" Round Pole Adapter for AD arm
- VPL-AD-RPA5 5.5"-5.9" Round Pole Adapter for AD arm
- VPL-AD-RPA6 6.0"-6.5" Round Pole Adapter for AD arm

<sup>1</sup> Not available with other wireless control or sensor options  
<sup>2</sup> Specify mounting height; 8 = 8' or less, 40 = 9' to 40'  
<sup>3</sup> Specify routine setting code (example GENI-04). See ENERGENI brochure and instructions for setting table and options. Not available with sensor or SiteSync options.  
<sup>4</sup> Specify group and zone at time of order. See www.hubbellighting.com/sitesync for further details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node  
<sup>5</sup> Only available with FR, 2, 3, 4, 4W and 5R distributions  
<sup>6</sup> Order at least one SCP-REMOTE per project location to program and control the occupancy sensor  
<sup>7</sup> This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: [http://cdn.beaconproducts.com/content/products/specs/specs\\_files/Viper\\_Large\\_LED\\_turtle\\_spec\\_sheet.pdf](http://cdn.beaconproducts.com/content/products/specs/specs_files/Viper_Large_LED_turtle_spec_sheet.pdf)

**PRECOMMISSIONED SITESYNC ORDERING INFORMATION:** When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group Information, and Operating schedules. For more detailed information please visit [www.hubbell-automation.com/products/sitesync/](http://www.hubbell-automation.com/products/sitesync/) or contact Hubbell Lighting tech support at (800) 345-4928.

SiteSync fixtures with Motion control (SWPM) require the mounting height of the fixture for selection of the lens.

Examples: VP-L/80L-235/4K7/3/UNV/A/DB/SWP/ SiteSync only  
 VP-L/80L-235/4K7/3/UNV/A/DB/SWPM-40F/ SiteSync with Motion Control



**Accessories and Services (Ordered Separately)**

Catalog Number	Description
SCP-REMOTE	Remote Control for SCP/_F option. Order at least one per project to program and control the occupancy sensor
SWUSB*	SiteSync interface software loaded on USB flash drive for use with owner supplied PC (Windows based only). Includes SiteSync license, software and USB radio bridge node
SWTAB*	Windows tablet and SiteSync interface software. Includes tablet with preloaded software, SiteSync license and USB radio bridge node.
SWBRG	SiteSync USB radio bridge node only. Order if a replacement is required or if an extra bridge node is requested.
SW7PR*	SiteSync 7 Pin on fixture module On/Off/Dim, Daylight Sensor 120-480VAC

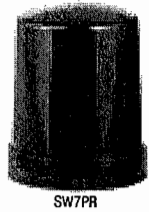
\* When ordering SiteSync at least one of these two interface options must be ordered per project.  
 + Available as a SiteSync retrofit solution for fixtures with an existing 7pin receptacle.

**Hubbell Control Solutions - Accessories (sold separately)**

Catalog Number	Description	HCS System
NXOFM-1R1D-UNV	On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with HubbNET Radio and Bluetooth® Radio, 120-480VAC	NX Distributed Intelligence™
WIR-RME-L	On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with wiSCAPE Radio, 110-480VAC	wiSCAPE® Lighting Control

For additional information related to these accessories please visit [www.hubbellcontrolsolutions.com](http://www.hubbellcontrolsolutions.com). Options provided for use with integrated sensor, please view specification sheet ordering information table for details.

**SiteSync 7-Pin Module**



- SiteSync features in a new form
- Available as an accessory for new construction or retrofit applications (with existing 7-Pin receptacle)
- Does not interface with occupancy sensors



**PERFORMANCE DATA**

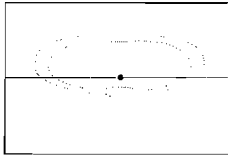
# LED'S	DRIVE CURRENT (MILLIAMPS)	SYSTEM WATTS	DISTRIBUTION TYPE	5K (5000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)					3K (3000K nominal, 70 CRI)				
				LUMENS	LPW <sup>1</sup>	B	U	G	LUMENS	LPW <sup>1</sup>	B	U	G	LUMENS	LPW <sup>1</sup>	B	U	G
				64	625 mA	135W	1A	18220	132	2	0	2	18783	137	2	0	2	16341
2	17228	125	2				0	2	17761	129	2	0	2	15452	112	2	0	2
3	17257	125	2				0	3	17791	129	2	0	3	15478	112	2	0	3
4	16864	123	1				0	4	17386	126	1	0	4	15125	110	1	0	3
4W	16648	112	2				0	4	17163	115	2	0	4	14931	100	2	0	4
5QM	17259	125	4				0	2	17792	129	4	0	2	15479	112	4	0	2
5QN	18023	131	4				0	0	18580	135	4	0	0	16165	117	4	0	0
5R	17410	127	4				0	4	17948	130	4	0	4	15615	113	4	0	4
5W	16498	120	4				0	2	17009	124	4	0	3	14797	108	4	0	2
TC	15925	110	2				1	2	16417	113	2	1	2	14283	98	1	1	2
80	700 mA	180W	1A				23230	128	2	0	2	23948	132	2	0	2	20835	115
			2	21965	121	3	0	3	22645	125	3	0	3	19701	109	2	0	3
			3	22003	121	2	0	4	22683	125	3	0	4	19734	109	2	0	4
			4	21502	119	2	0	4	22167	122	2	0	4	19285	106	2	0	4
			4W	20810	112	2	0	4	21627	116	2	0	4	18664	100	2	0	4
			5QM	22005	121	4	0	2	22686	125	4	0	2	19736	109	4	0	2
			5QN	22979	127	4	0	1	23689	131	4	0	1	20610	114	4	0	0
			5R	22197	122	4	0	4	22884	126	4	0	4	19909	110	4	0	4
			5W	21035	116	5	0	3	21686	120	5	0	3	18867	104	4	0	3
			TC	19906	110	2	1	2	20522	113	2	1	2	17854	98	2	1	2
			80	875 mA	235W	1A	27849	121	2	0	2	28711	125	2	0	2	24978	108
2	26334	114				3	0	3	27148	118	3	0	4	23619	102	3	0	3
3	26378	114				3	0	4	27194	118	3	0	4	23659	103	3	0	4
4	25777	112				2	0	4	26575	115	2	0	5	23120	100	2	0	4
4W	25109	106				2	0	5	25886	109	2	0	5	22521	95	2	0	5
5QM	26381	114				4	0	2	27196	118	4	0	2	23661	103	4	0	2
5QN	27548	119				5	0	1	28400	123	5	0	1	24708	107	5	0	1
5R	26611	115				5	0	5	27434	119	5	0	5	23868	104	4	0	4
5W	25218	109				5	0	3	25998	113	5	0	3	22619	98	5	0	3
TC	23864	103				2	1	2	24602	107	2	1	2	21404	93	2	1	2
96	700 mA	220W				1A	27876	128	2	0	2	28738	132	2	0	2	25002	115
			2	26359	121	3	0	3	27174	125	3	0	4	23641	109	3	0	3
			3	26403	121	3	0	4	27220	125	3	0	4	23681	109	3	0	4
			4	25802	119	2	0	4	26800	122	2	0	5	23142	106	2	0	4
			4W	24651	113	3	0	5	25413	117	3	0	5	22109	102	2	0	4
			5QM	26406	121	4	0	2	27222	125	4	0	2	23684	109	4	0	2
			5QN	27575	127	5	0	1	28427	131	5	0	1	24732	114	5	0	1
			5R	26637	122	5	0	5	27460	126	5	0	5	23891	110	4	0	4
			5W	25242	116	5	0	3	26023	120	5	0	3	22640	104	5	0	3
			TC	23887	110	2	1	2	24626	113	2	1	2	21424	98	2	1	2
			96	875 mA	280W	1A	33419	121	3	0	2	34453	125	3	0	2	29974	108
2	31600	114				3	0	4	32577	118	3	0	4	28342	102	3	0	4
3	31654	114				3	0	5	32633	118	3	0	5	28390	103	3	0	4
4	30933	112				2	0	5	31889	115	2	0	5	27744	100	2	0	5
4W	30131	106				3	0	5	31063	109	3	0	5	27025	95	3	0	5
5QM	31657	114				5	0	3	32636	118	5	0	3	28393	103	4	0	2
5QN	33058	119				5	0	1	34080	123	5	0	1	29650	101	5	0	1
5R	31933	115				5	0	5	32921	119	5	0	5	28641	104	5	0	5
5W	30262	109				5	0	4	31198	113	5	0	4	27142	98	5	0	3
TC	28642	104				2	1	3	29528	107	2	1	3	25690	93	2	1	3
96	1000mA	315W <sup>2</sup>				1A	35666	113	3	0	2	36769	117	3	0	2	31989	101
			2	33725	107	3	0	4	34768	110	3	0	4	30248	96	3	0	4
			3	33782	107	3	0	5	34827	110	3	0	5	30299	96	3	0	4
			4	33012	105	2	0	5	34033	108	2	0	5	29609	94	2	0	5
			4W	32158	106	3	0	5	33153	109	3	0	5	28842	95	3	0	5
			5QM	33785	107	5	0	3	34830	110	5	0	3	30302	96	5	0	2
			5QN	35280	112	5	0	1	36371	115	5	0	1	31643	100	5	0	1
			5R	34080	108	5	0	5	35134	111	5	0	5	30567	97	5	0	5
			5W	32302	102	5	0	4	33301	106	5	0	4	28972	92	5	0	4
			TC	30568	97	2	1	3	31513	100	3	1	3	27416	87	2	1	3
			96	1225mA	395W <sup>2</sup>	1A	39569	101	3	0	4	43125	110	3	0	3	37518	96
2	39569	101				3	0	4	40793	104	3	0	4	35490	91	3	0	4
3	39619	101				3	0	5	40845	104	3	0	5	35535	91	3	0	5
4	38723	98				3	0	5	39921	101	3	0	5	34731	88	2	0	5
4W	37720	106				3	0	5	38887	109	3	0	5	33831	95	3	0	5
5QM	39623	101				5	0	3	40848	104	5	0	3	35538	90	5	0	3
5QN	41394	105				5	0	1	42675	109	5	0	1	37127	95	5	0	1
5R	39969	102				5	0	5	41205	105	5	0	5	35848	91	5	0	5
5W	37877	97				5	0	4	39048	100	5	0	4	33986	87	5	0	4
TC	35850	90				3	1	3	36959	93	3	1	3	32154	81	3	1	3

<sup>1</sup>Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.  
<sup>2</sup> 315W and 395W 3000K versions are not DLC QPL listed. Reference highlighted cells in table.

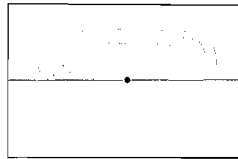


## PHOTOMETRICS

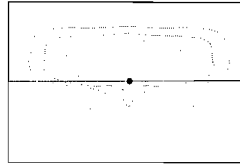
Type FR - Front Row/Auto Optic



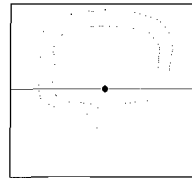
Type 2



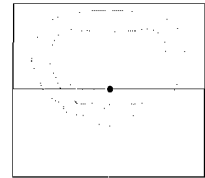
Type 3



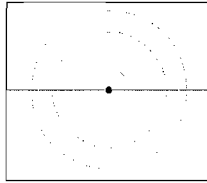
Type 4



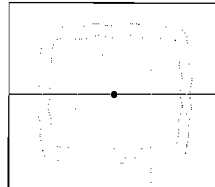
Type 4W



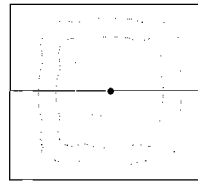
Type 5W



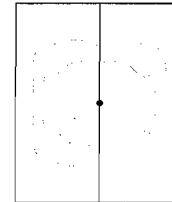
Type 5QN



Type 5QM



Type 5R



## ELECTRICAL DATA

# OF LEDs	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (w)	CURRENT (Amps)
64	1	625 mA	120	135	1.4
			277		0.6
			347		0.5
			480		0.3
80	2	700 mA	120	180	1.8
			277		0.8
			347		0.6
			480		0.5
80	2	875 mA	120	235	2.4
			277		1.0
			347		0.8
			480		0.6
96	2	700 mA	120	220	2.2
			277		1.0
			347		0.8
			480		0.6
96	2	875 mA	120	280	2.8
			277		1.2
			347		1.0
			480		0.7
96	2	1000 mA	120	315	3.2
			277		1.4
			347		1.1
			480		0.8
96	2	1225 mA	120	395	4.0
			277		1.7
			347		1.4
			480		1.0

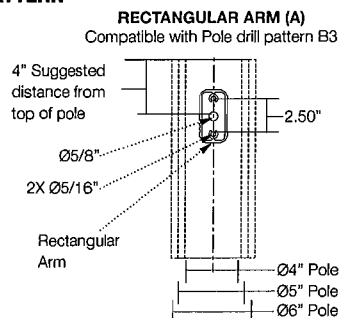
## PROJECTED LUMEN MAINTENANCE

AMBIENT TEMP.	0	25,000	50,000	TM-21-11 60,000	100,000	Calculated L70 (HOURS)
25°C / 77°C	1	0.98	0.97	0.97	0.96	>377,000

<sup>1</sup> Projected per IESNA TM-21-11

Data references the extrapolated performance projections for the 700mA base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.

## DRILL PATTERN



## EPA

Config.	EPA	Config.	EPA
1	1.2	3 @ 120°	3.0
2 @ 90°	1.9	3 @ 90°	3.1
2 @ 180°	2.4	4 @ 90°	3.8



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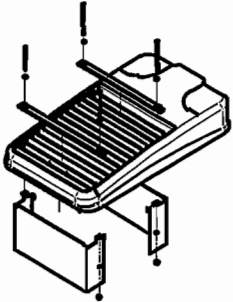


## TENON TOP POLE BRACKET ACCESSORIES (Order Separately)

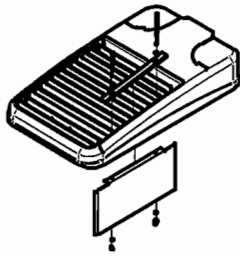
(2 3/8" OD tenon)

Catalog Number	Description
SETAVP-XX	Square tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
RETAVP-XX	Round tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
TETAVP-XX	Hexagonal tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
SETA2XX	Square tenon adapter (4 at 90°) for AD - Universal Arm mounting option only
RETA2XX	Round tenon adapter (4 at 90°) for AD3 - Universal Arm mounting option only
TETA2XX	Hexagonal tenon adapter (3 at 120°) for AD - Universal Arm mounting option only

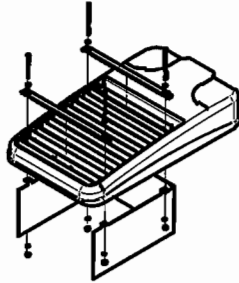
## HOUSE SIDE SHIELD FIELD INSTALL ACCESSORIES



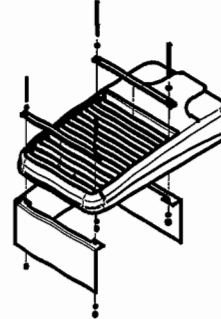
**HSS/EVP-L/90-FB/XXX**  
90° shield front or back  
(2 shields shown)



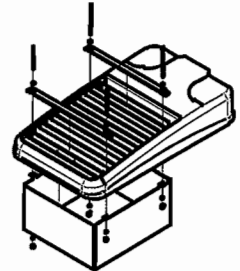
**HSS/EVP-L/90-LR/XXX**  
90° shield left or right  
(1 shield shown in left orientation)



**HSS/EVP-L/270-FB/XXX**  
270° shield front or back  
(1 shield shown in back orientation)



**HSS/EVP-L/270-LR/XXX**  
270° shield left or right  
(1 shield shown in right orientation)

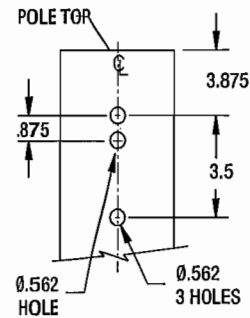
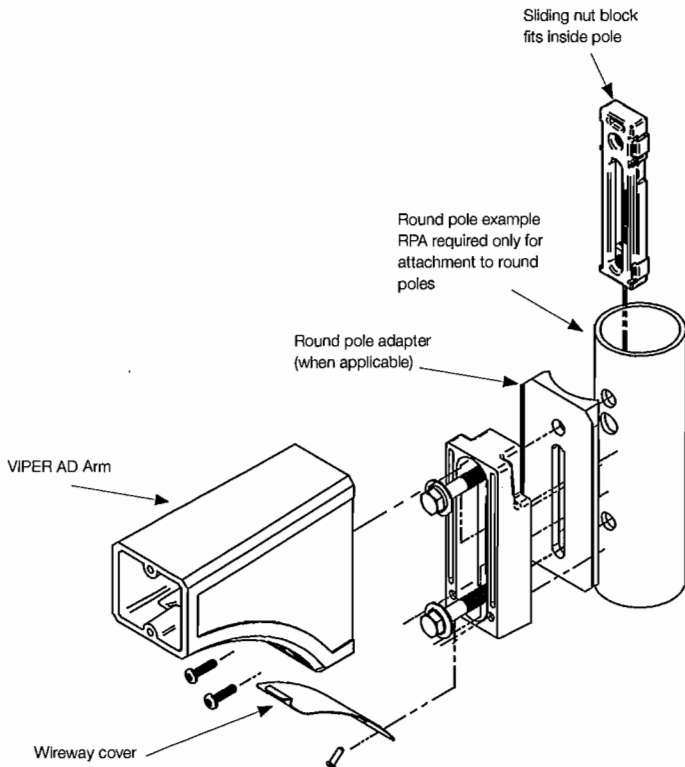


**HSS/EVP-L/360/XXX**  
Full shield  
(1 shield shown)

## AD ARM MOUNTING INSTRUCTIONS

### DECORATIVE ARM (AD)

Compatible with pole drill pattern S2



# VIPER L

## STRIKE

LARGE VIPER LUMINAIRE

Cat.#

Job

CHESTERFIELD COM

Type

S4W



Approvals

### SPECIFICATIONS

#### Intended Use:

The Beacon Viper luminaire is available in two sizes with a wide choice of different LED wattage configurations and optical distributions designed to replace HID lighting up to 1000W MH or HPS. Luminaires are suitable for wet locations.

#### Construction:

- Manufactured with die cast aluminum.
- Coated with a polyester finish that meets ASTM B117 corrosion test requirements and ASTM D522 cracking and loss of adhesion test requirements.
- External hardware is corrosion resistant.
- One piece optical cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel.
- Cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system.
- Two-piece silicone and microcellular polyurethane foam gasket ensures a weather-proof seal around each individual optic.

#### Electrical:

- Luminaire accepts 100V through 277V, 50 Hz to 60 Hz (UNV), 347V, or 480V input.
- Power factor is  $\geq .90$  at full load.
- Dimming drivers are standard, but must contact factory to request wiring leads for purpose of external dimming controls.
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is certified by UL for use at 600VAC at 90°C or higher.
- Plug disconnects are certified by UL for use at 600 VAC, 13A or higher. 13A rating applies to primary (AC) side only.
- Fixture electrical compartment shall contain all LED driver components and shall be provided with a push-button terminal block for AC power connections.
- Optional 7-pin ANSI C136.41-2013 twist-lock photo control receptacle available. Compatible with ANSI C136.41 external wireless control devices.
- Ambient operating temperature -40°C to 40°C
- Surge protection - 20kA.
- Lifeshield™ Circuit - protects luminaire from excessive temperature. The device shall activate at a specific, factory-preset temperature, and progressively reduce power over a finite temperature range. Operation shall be smooth and undetectable to the eye. Thermal circuit is designed to "fail on", allowing the luminaire to revert to full power in the event of an interruption of its power supply, or faulty wiring connection to the drivers. The device shall be able to co-exist with other 0-10V control devices (occupancy sensors, external dimmers, etc.).

#### Controls/Options:

- Available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the motion response system reduces the wattage to factory preset level, reducing the light level accordingly. When motion is detected by the PIR sensor, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from standard configuration.
- Available with Energeni for optional set dimming, timed dimming with simple delay, or timed dimming based on time of night (see [www.beaconproducts.com/products/energeni](http://www.beaconproducts.com/products/energeni)).
- In addition, Viper can be specified with SiteSync™ wireless control system for reduction in energy and maintenance costs while optimizing light quality 24/7. For more details, see ordering information or visit: [www.hubbellingighting.com/sitesync](http://www.hubbellingighting.com/sitesync)

#### Installation:

- Mounting options for horizontal arm, vertical tenon or traditional arm mounting available. Mounting hardware included.

#### Finish:

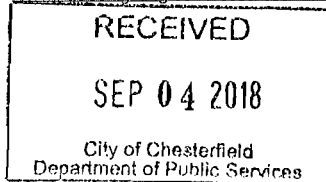
- IFS polyester powder-coat electrostatically applied and thermocured. IFS finish consists of a five stage pretreatment regimen with a polymer primer sealer and top coated with a thermoset super TGIC polyester powder coat finish.
- The finish meets the AAMA 2604 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds.

#### Certifications/Ratings:

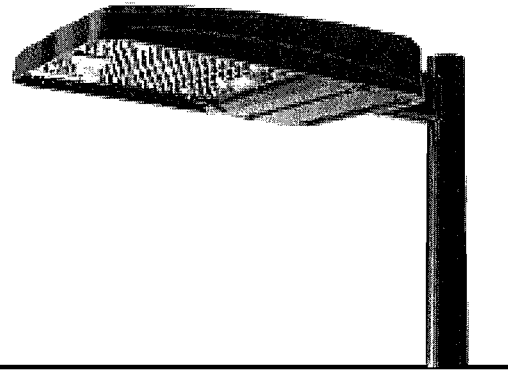
- DesignLights Consortium (DLC) qualified, consult DLC website for more details: <http://www.designlights.org/QPL>
- Certified to UL 1598, UL 8750, and CSA C22.2
- 3G rated for ANSI C136.31 high vibration applications with MAF mounting
- IDA approved
- This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: [http://www.beaconproducts.com/products/viper\\_large](http://www.beaconproducts.com/products/viper_large)

#### Warranty:

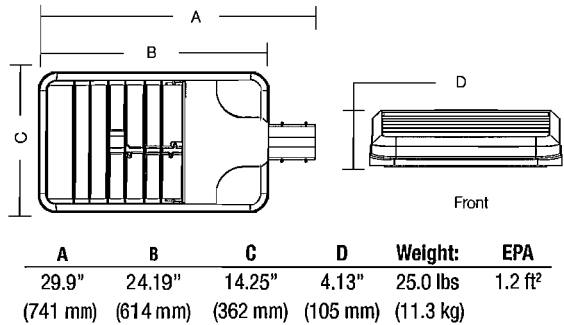
Five year limited warranty for more information visit: [www.hubbellingighting.com/resources/warranty](http://www.hubbellingighting.com/resources/warranty)



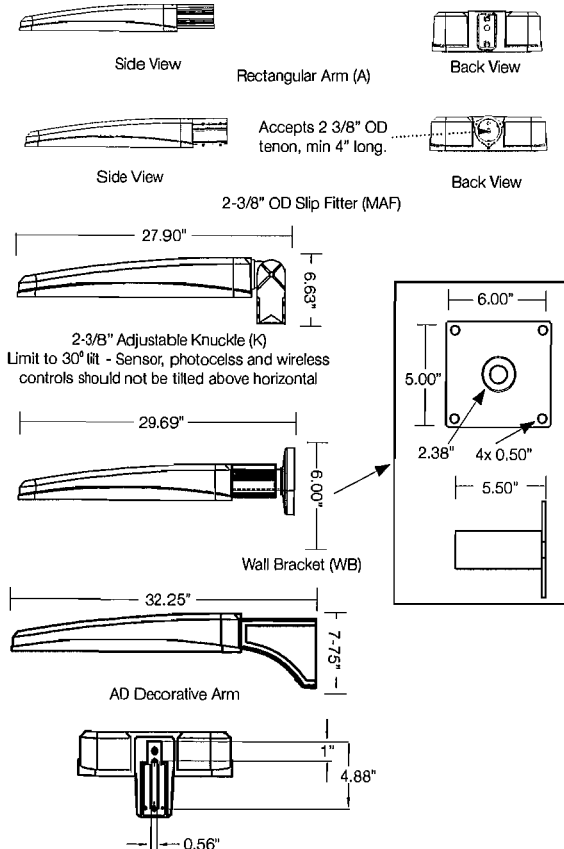
### PRODUCT IMAGE(S)



### DIMENSIONS



### MOUNTING OPTIONS



### CERTIFICATIONS/LISTINGS



\*3000K and warmer CCTs only



Beacon Products • 2041 58th Avenue Circle East Bradenton, FL 34203 • Phone: 800-345-4928

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

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<b>VPL</b>							
SERIES	LED ENGINE	CCT/CRI <sup>1</sup>	ROTATION	VOLTAGE	COLOR	OPTIONS	
VPL Viper	64L-135 135W LED array 80L-180 180W LED array 80L-235 235W LED array 96L-220 220W LED array 96L-280 280W LED array 96L-315 315W LED array 96L-395 395W LED array	3K7 3000K, 70 CRI 4K7 4000K, 70 CRI 5K7 5000K, 70 CRI	Leave blank for no rotation L <sup>S</sup> Optic rotation left R <sup>S</sup> Optic rotation right	UNV 120-277V 120 120V 208 208V 240 240V 277 277V 347 347V 480 480V	BL Black Textured DB Dark Bronze Textured GYS Light Gray Smooth PS Platinum Silver Smooth WH White Textured CC Custom Color	F Fusing BSP Bird Spikes BC Backshield (available for FR, 2, 3, 4, 4W Optics)	

**DISTRIBUTION**

- FR Type 1/Front Row
- 2 Type 2
- 3 Type 3
- 4 Type 4
- 4W Type 4 Wide
- 5QM Type 5QM
- 5QN Type 5QN
- 5R Type 5R (rectangular)
- 5W Type 5W (round wide)
- TC Tennis Court

**MOUNTING**

- A Rectangular Arm (formerly RA) for square or round pole
- MAF Mast Arm Fitter (formerly SF2) for 2-3/8" OD horizontal arm
- K Knuckle (formerly PK2) limit to 30° tilt or 2-3/8" OD horizontal arm or vertical tenon
- WB Wall Bracket
- AD Universal Arm for square pole
- AD3 Universal Arm for 2.4"-4.1" round pole
- AD4 Universal Arm for 4.2"-5.3" round pole
- AD5 Universal Arm for 5.5"-5.9" round pole
- AD6 Universal Arm for 6.0"-6.5" round pole

**CONTROL OPTIONS**

- 7PR 7-Pin Receptacle only (shorting cap, photo control, or wireless control provided by others)
- 7PR-SC 7-Pin Receptacle w/Shorting Cap
- 7PR-TL 7-Pin Receptacle w/Twist Lock photo control
- SCP/\_F<sup>1,2,6</sup> Programmable Occupancy Sensor w/daylight control (120-277 volts only)
- GENI-XX<sup>3</sup> ENERGENI
- SWP<sup>1,4</sup> SiteSync Pre-Commission
- SWPM<sup>1,2,4</sup> SiteSync Pre-Commission w/ Sensor

**HOUSE SIDE SHIELD ACCESSORIES**

- HSS/EVP-L/90-FB/XXX 90° shield front or back
- HSS/EVP-L/90-LR/XXX 90° shield left or right
- HSS/EVP-L/270-FB/XXX 270° shield front or back
- HSS/EVP-L/270-LR/XXX 270° shield left or right
- HSS/EVP-L/360/XXX Full shield

(Replace XXX with notation for desired finish color)  
(Refer to page 5 for shield images)

**MOUNTING ACCESSORIES**

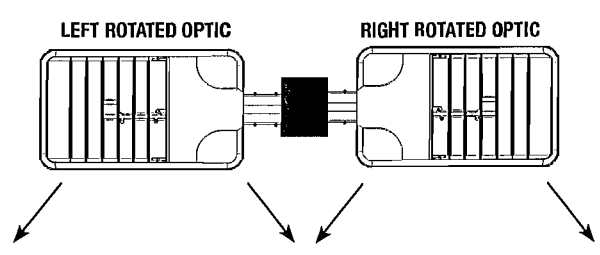
- VPL-AD-RPA3 2.4"-4.1" Round Pole Adapter for AD arm
- VPL-AD-RPA4 4.2"-5.3" Round Pole Adapter for AD arm
- VPL-AD-RPA5 5.5"-5.9" Round Pole Adapter for AD arm
- VPL-AD-RPA6 6.0"-6.5" Round Pole Adapter for AD arm

<sup>1</sup> Not available with other wireless control or sensor options  
<sup>2</sup> Specify mounting height; 8 = 8' or less, 40 = 9' to 40'  
<sup>3</sup> Specify routine setting code (example GENI-04). See ENERGENI brochure and instructions for setting table and options. Not available with sensor or SiteSync options.  
<sup>4</sup> Specify group and zone at time of order. See www.hubbellighting.com/sitesync for further details. Order at least one SiteSync Interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node  
<sup>5</sup> Only available with FR, 2, 3, 4, 4W and 5R distributions  
<sup>6</sup> Order at least one SCP-REMOTE per project location to program and control the occupancy sensor  
<sup>7</sup> This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: [http://cdn.beaconproducts.com/content/products/specs/specs\\_files/Viper\\_Large\\_LED\\_turtle\\_spec\\_sheet.pdf](http://cdn.beaconproducts.com/content/products/specs/specs_files/Viper_Large_LED_turtle_spec_sheet.pdf)

**PRECOMMISSIONED SITESYNC ORDERING INFORMATION:** When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit [www.hubbell-automation.com/products/sitesync/](http://www.hubbell-automation.com/products/sitesync/) or contact Hubbell Lighting tech support at (800) 345-4928.

SiteSync fixtures with Motion control (SWPM) require the mounting height of the fixture for selection of the lens.

Examples: VP-L/80L-235/4K7/3/UNV/A/DB/SWP/ SiteSync only  
 VP-L/80L-235/4K7/3/UNV/A/DB/SWPM-40F/ SiteSync with Motion Control



**Accessories and Services (Ordered Separately)**

Catalog Number	Description
SCP-REMOTE	Remote Control for SCP/_F option. Order at least one per project to program and control the occupancy sensor
SWUSB*	SiteSync interface software loaded on USB flash drive for use with owner supplied PC (Windows based only). Includes SiteSync license, software and USB radio bridge node
SWTAB*	Windows tablet and SiteSync interface software. Includes tablet with preloaded software, SiteSync license and USB radio bridge node.
SWBRG	SiteSync USB radio bridge node only. Order if a replacement is required or if an extra bridge node is requested.
SW7PR*	SiteSync 7 Pin on fixture module On/Off/Dim, Daylight Sensor 120-480VAC

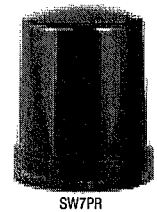
\* When ordering SiteSync at least one of these two Interface options must be ordered per project.  
 + Available as a SiteSync retrofit solution for fixtures with an existing 7pin receptacle.

**Hubbell Control Solutions - Accessories (sold separately)**

Catalog Number	Description	HCS System
NXOFM-1R1D-UNV	On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with HubbNET Radio and Bluetooth® Radio, 120-480VAC	NX Distributed Intelligence™
WIR-RME-L	On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with wiSCAPE Radio, 110-480VAC	wiSCAPE® Lighting Control

For additional information related to these accessories please visit [www.hubbellcontrolsolutions.com](http://www.hubbellcontrolsolutions.com). Options provided for use with integrated sensor, please view specification sheet ordering information table for details.

**SiteSync 7-Pin Module**



- SiteSync features in a new form
- Available as an accessory for new construction or retrofit applications (with existing 7-Pin receptacle)
- Does no interface with occupancy sensors



**PERFORMANCE DATA**

# LED'S	DRIVE CURRENT (MILLIAMPS)	SYSTEM WATTS	DISTRIBUTION TYPE	5K (5000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)					3K (3000K nominal, 70 CRI)				
				LUMENS	LPW <sup>1</sup>	B	U	G	LUMENS	LPW <sup>1</sup>	B	U	G	LUMENS	LPW <sup>1</sup>	B	U	G
				1A	18220	132	2	0	2	18783	137	2	0	2	16341	119	2	0
2	17228	125	2	0	2	17761	129	2	0	2	15452	112	2	0	2			
3	17257	125	2	0	3	17791	129	2	0	3	15478	112	2	0	3			
4	16864	123	1	0	4	17386	126	1	0	4	15125	110	1	0	4			
4W	16648	112	2	0	4	17163	115	2	0	4	14931	100	2	0	4			
5QM	17259	125	4	0	2	17792	129	4	0	2	15479	112	4	0	2			
5QN	18023	131	4	0	0	18580	135	4	0	0	16165	117	4	0	0			
5R	17410	127	4	0	4	17948	130	4	0	4	15615	113	4	0	4			
5W	16498	120	4	0	2	17009	124	4	0	3	14797	108	4	0	2			
TC	15925	110	2	1	2	16417	113	2	1	2	14283	98	1	1	2			
1A	23230	128	2	0	2	23948	132	2	0	2	20835	115	2	0	2			
2	21965	121	3	0	3	22645	125	3	0	3	19701	109	2	0	3			
3	22003	121	2	0	4	22683	125	3	0	4	19734	109	2	0	4			
4	21502	119	2	0	4	22167	122	2	0	4	19285	106	2	0	4			
4W	20810	112	2	0	4	21627	116	2	0	4	18664	100	2	0	4			
5QM	22005	121	4	0	2	22686	125	4	0	2	19736	109	4	0	2			
5QN	22979	127	4	0	1	23689	131	4	0	1	20610	114	4	0	0			
5R	22197	122	4	0	4	22884	126	4	0	4	19909	110	4	0	4			
5W	21035	116	5	0	3	21886	120	5	0	3	18867	104	4	0	3			
TC	19906	110	2	1	2	20522	113	2	1	2	17854	98	2	1	2			
1A	27849	121	2	0	2	28711	125	2	0	2	24978	108	2	0	2			
2	26334	114	3	0	3	27148	118	3	0	4	23619	102	3	0	3			
3	26378	114	3	0	4	27194	118	3	0	4	23659	103	3	0	4			
4	25777	112	2	0	4	26575	115	2	0	5	23120	100	2	0	4			
4W	25109	106	2	0	5	25886	109	2	0	5	22521	95	2	0	5			
5QM	26381	114	4	0	2	27196	118	4	0	2	23661	103	4	0	2			
5QN	27548	119	5	0	1	28400	123	5	0	1	24708	107	5	0	1			
5R	26611	115	5	0	5	27434	119	5	0	5	23868	104	4	0	4			
5W	25218	109	5	0	3	25998	113	5	0	3	22619	98	5	0	3			
TC	23864	103	2	1	2	24602	107	2	1	2	21404	93	2	1	2			
1A	27876	128	2	0	2	28738	132	2	0	2	25002	115	2	0	2			
2	26359	121	3	0	3	27174	125	3	0	4	23641	109	3	0	3			
3	26403	121	3	0	4	27220	125	3	0	4	23681	109	3	0	4			
4	25802	119	2	0	4	26600	122	2	0	5	23142	106	2	0	4			
4W	24651	113	3	0	5	25413	117	3	0	5	22109	102	2	0	4			
5QM	26406	121	4	0	2	27222	125	4	0	2	23684	109	4	0	2			
5QN	27575	127	5	0	1	28427	131	5	0	1	24732	114	5	0	1			
5R	26637	122	5	0	5	27460	126	5	0	5	23891	110	4	0	4			
5W	25242	116	5	0	3	26023	120	5	0	3	22640	104	5	0	3			
TC	23887	110	2	1	2	24626	113	2	1	2	21424	98	2	1	2			
1A	33419	121	3	0	2	34453	125	3	0	2	29974	108	2	0	2			
2	31600	114	3	0	4	32577	118	3	0	4	28342	102	3	0	4			
3	31654	114	3	0	5	32633	118	3	0	5	28390	103	3	0	4			
4	30933	112	2	0	5	31889	115	2	0	5	27744	100	2	0	5			
4W	30131	106	3	0	5	31063	109	3	0	5	27025	95	3	0	5			
5QM	31657	114	5	0	3	32636	118	5	0	3	28393	103	4	0	2			
5QN	33058	119	5	0	1	34080	123	5	0	1	29650	101	5	0	1			
5R	31933	115	5	0	5	32921	119	5	0	5	28641	104	5	0	5			
5W	30262	109	5	0	4	31198	113	5	0	4	27142	98	5	0	3			
TC	28642	104	2	1	3	29528	107	2	1	3	25690	93	2	1	3			
1A	35666	113	3	0	2	36769	117	3	0	2	31989	101	2	0	2			
2	33725	107	3	0	4	34768	110	3	0	4	30248	96	3	0	4			
3	33782	107	3	0	5	34827	110	3	0	5	30299	96	3	0	4			
4	33012	105	2	0	5	34033	108	2	0	5	29609	94	2	0	5			
4W	32158	106	3	0	5	33153	109	3	0	5	28842	95	3	0	5			
5QM	33785	107	5	0	3	34830	110	5	0	3	30302	96	5	0	2			
5QN	35280	112	5	0	1	36371	115	5	0	1	31643	100	5	0	1			
5R	34080	108	5	0	5	35134	111	5	0	5	30567	97	5	0	5			
5W	32302	102	5	0	4	33301	106	5	0	4	28972	92	5	0	4			
TC	30568	97	2	1	3	31513	100	3	1	3	27416	87	2	1	3			
1A	39569	101	3	0	4	43125	110	3	0	3	37518	96	3	0	2			
2	39569	101	3	0	4	40793	104	3	0	4	35490	91	3	0	4			
3	39619	101	3	0	5	40845	104	3	0	5	35535	91	3	0	5			
4	38723	98	3	0	5	39921	101	3	0	5	34731	88	2	0	5			
4W	37720	106	3	0	5	38887	109	3	0	5	33831	95	3	0	5			
5QM	39623	101	5	0	3	40848	104	5	0	3	35538	90	5	0	3			
5QN	41394	105	5	0	1	42675	109	5	0	1	37127	95	5	0	1			
5R	39969	102	5	0	5	41205	105	5	0	5	35848	91	5	0	5			
5W	37877	97	5	0	4	39048	100	5	0	4	33986	87	5	0	4			
TC	35850	90	3	1	3	36959	93	3	1	3	32154	81	3	1	3			

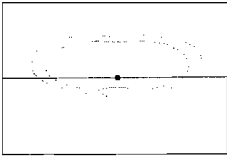
<sup>1</sup> Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

<sup>2</sup> 315W and 395W 3000K versions are not DLC QPL listed. Reference highlighted cells in table.

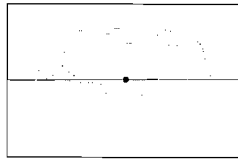


# PHOTOMETRICS

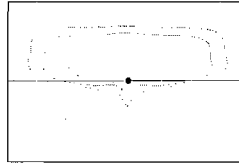
Type FR - Front Row/Auto Optic



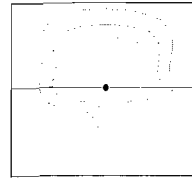
Type 2



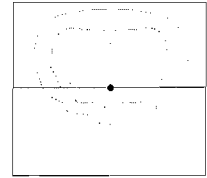
Type 3



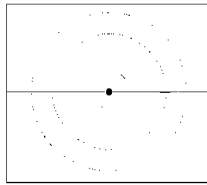
Type 4



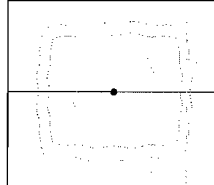
Type 4W



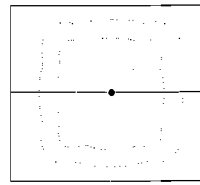
Type 5W



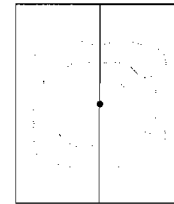
Type 5QN



Type 5QM



Type 5R



## ELECTRICAL DATA

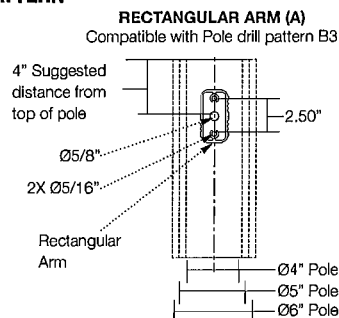
# OF LEDs	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (w)	CURRENT (Amps)
64	1	625 mA	120	135	1.4
			277		0.6
			347		0.5
			480		0.3
80	2	700 mA	120	180	1.8
			277		0.8
			347		0.6
			480		0.5
80	2	875 mA	120	235	2.4
			277		1.0
			347		0.8
			480		0.6
96	2	700 mA	120	220	2.2
			277		1.0
			347		0.8
			480		0.6
96	2	875 mA	120	280	2.8
			277		1.2
			347		1.0
			480		0.7
96	2	1000 mA	120	315	3.2
			277		1.4
			347		1.1
			480		0.8
96	2	1225 mA	120	395	4.0
			277		1.7
			347		1.4
			480		1.0

## PROJECTED LUMEN MAINTENANCE

AMBIENT TEMP.	0	25,000	50,000	TM-21-11 60,000	100,000	Calculated L70 (HOURS)
25°C / 77°C	1	0.98	0.97	0.97	0.96	>377,000

\* Projected per IESNA TM-21-11  
Data references the extrapolated performance projections for the 700mA base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.

## DRILL PATTERN



## EPA

Config.	EPA	Config.	EPA
1	1.2	3 @ 120°	3.0
2 @ 90°	1.9	3 @ 90°	3.1
2 @ 180°	2.4	4 @ 90°	3.8



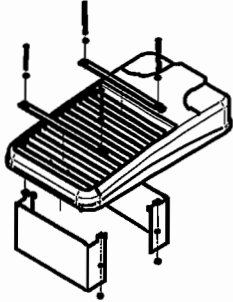


## TENON TOP POLE BRACKET ACCESSORIES (Order Separately)

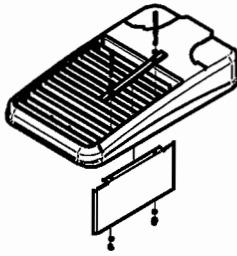
(2 3/8" OD tenon)

Catalog Number	Description
SETAVP-XX	Square tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
RETAVP-XX	Round tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
TETAVP-XX	Hexagonal tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
SETA2XX	Square tenon adapter (4 at 90°) for AD - Universal Arm mounting option only
RETA2XX	Round tenon adapter (4 at 90°) for AD3 - Universal Arm mounting option only
TETA2XX	Hexagonal tenon adapter (3 at 120°) for AD - Universal Arm mounting option only

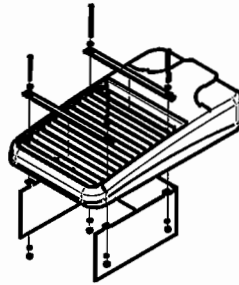
## HOUSE SIDE SHIELD FIELD INSTALL ACCESSORIES



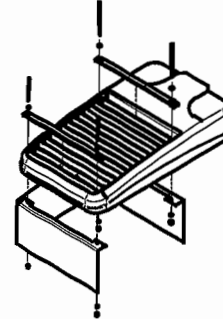
**HSS/EVP-L/90-FB/XXX**  
90° shield front or back  
(2 shields shown)



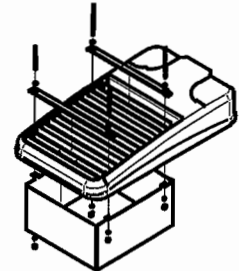
**HSS/EVP-L/90-LR/XXX**  
90° shield left or right  
(1 shield shown in left orientation)



**HSS/EVP-L/270-FB/XXX**  
270° shield front or back  
(1 shield shown in back orientation)



**HSS/EVP-L/270-LR/XXX**  
270° shield left or right  
(1 shield shown in right orientation)

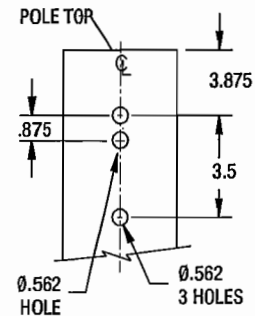
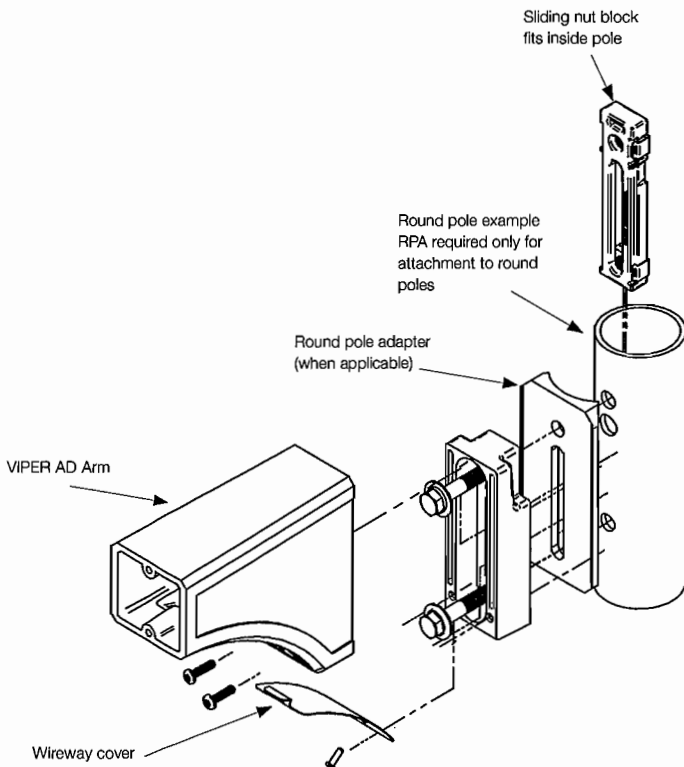


**HSS/EVP-L/360/XXX**  
Full shield  
(1 shield shown)

## AD ARM MOUNTING INSTRUCTIONS

### DECORATIVE ARM (AD)

Compatible with pole drill pattern S2



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# VIPER L STRIKE

LARGE VIPER LUMINAIRE

Cat.#

Job

CHESTERFIELD COM

Type

T5



Approvals

## SPECIFICATIONS

### Intended Use:

The Beacon Viper luminaire is available in two sizes with a wide choice of different LED wattage configurations and optical distributions designed to replace HID lighting up to 1000W MH or HPS. Luminaires are suitable for wet locations.

### Construction:

- Manufactured with die cast aluminum.
- Coated with a polyester finish that meets ASTM B117 corrosion test requirements and ASTM D522 cracking and loss of adhesion test requirements.
- External hardware is corrosion resistant.
- One piece optical cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel.
- Cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system.
- Two-piece silicone and microcellular polyurethane foam gasket ensures a weather-proof seal around each individual optic.

### Electrical:

- Luminaire accepts 100V through 277V, 50 Hz to 60 Hz (UNV), 347V, or 480V input.
- Power factor is  $\geq .90$  at full load.
- Dimming drivers are standard, but must contact factory to request wiring leads for purpose of external dimming controls.
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is certified by UL for use at 600VAC at 90°C or higher.
- Plug disconnects are certified by UL for use at 600 VAC, 13A or higher. 13A rating applies to primary (AC) side only.
- Fixture electrical compartment shall contain all LED driver components and shall be provided with a push-button terminal block for AC power connections.
- Optional 7-pin ANSI C136.41-2013 twist-lock photo control receptacle available. Compatible with ANSI C136.41 external wireless control devices.
- Ambient operating temperature -40°C to 40°C
- Surge protection - 20kA.
- Lifeshield™ Circuit - protects luminaire from excessive temperature. The device shall activate at a specific, factory-preset temperature, and progressively reduce power over a finite temperature range. Operation shall be smooth and undetectable to the eye. Thermal circuit is designed to "fail on", allowing the luminaire to revert to full power in the event of an interruption of its power supply, or faulty wiring connection to the drivers. The device shall be able to co-exist with other 0-10V control devices (occupancy sensors, external dimmers, etc.).

### Controls/Options:

- Available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the motion response system reduces the wattage to factory preset level, reducing the light level accordingly. When motion is detected by the PIR sensor, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from standard configuration.
- Available with Energeni for optional set dimming, timed dimming with simple delay, or timed dimming based on time of night (see [www.beaconproducts.com/products/energeni](http://www.beaconproducts.com/products/energeni)).
- In addition, Viper can be specified with SiteSync™ wireless control system for reduction in energy and maintenance costs while optimizing light quality 24/7. For more details, see ordering information or visit: [www.hubbelling.com/sitesync](http://www.hubbelling.com/sitesync)

### Installation:

- Mounting options for horizontal arm, vertical tenon or traditional arm mounting available. Mounting hardware included.

### Finish:

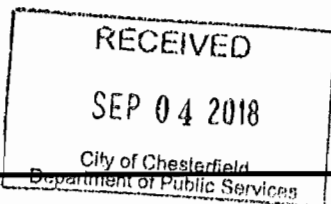
- IFS polyester powder-coat electrostatically applied and thermocured. IFS finish consists of a five stage pretreatment regimen with a polymer primer sealer and top coated with a thermoset super TGIC polyester powder coat finish.
- The finish meets the AAMA 2604 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds.

### Certifications/Ratings:

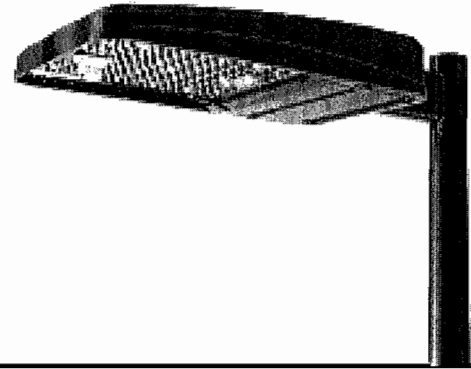
- DesignLights Consortium (DLC) qualified, consult DLC website for more details: <http://www.designlights.org/QPL>
- Certified to UL 1598, UL 8750, and CSA C22.2
- 3G rated for ANSI C136.31 high vibration applications with MAF mounting
- IDA approved
- This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: [http://www.beaconproducts.com/products/viper\\_large](http://www.beaconproducts.com/products/viper_large)

### Warranty:

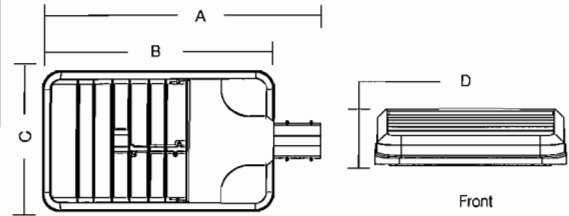
Five year limited warranty for more information visit: [www.hubbelling.com/resources/warranty](http://www.hubbelling.com/resources/warranty)



## PRODUCT IMAGE(S)

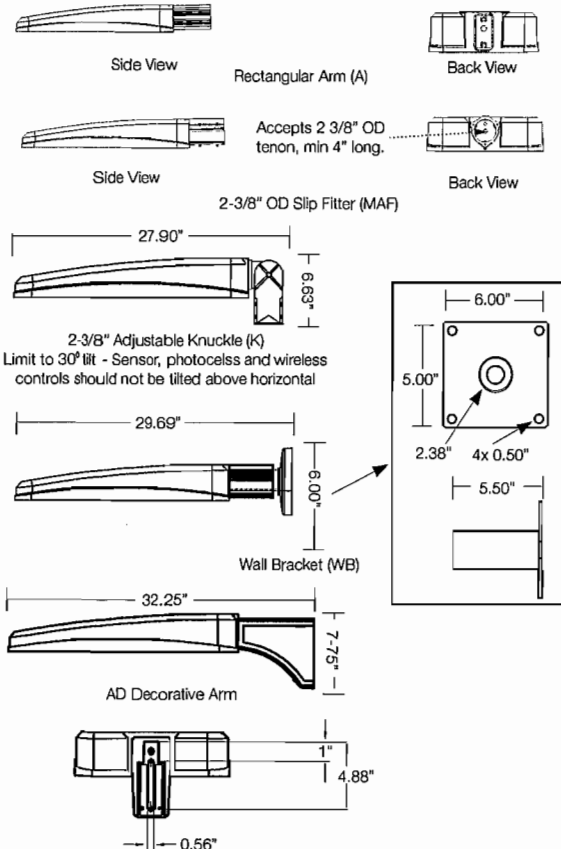


## DIMENSIONS



A	B	C	D	Weight:	EPA
29.9"	24.19"	14.25"	4.13"	25.0 lbs	1.2 ft <sup>2</sup>
(741 mm)	(614 mm)	(362 mm)	(105 mm)	(11.3 kg)	

## MOUNTING OPTIONS



## CERTIFICATIONS/LISTINGS



\*3000K and warmer CCTs only



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<b>VPL</b>								
SERIES	LED ENGINE	CCT/CRI*	ROTATION	VOLTAGE	COLOR	OPTIONS		
VPL Viper	64L-135 135W LED array 80L-180 180W LED array 80L-235 235W LED array 96L-220 220W LED array 96L-280 280W LED array 96L-315 315W LED array 96L-395 395W LED array	3K7 3000K, 70 CRI 4K7 4000K, 70 CRI 5K7 5000K, 70 CRI	Leave blank for no rotation L <sup>5</sup> Optic rotation left R <sup>5</sup> Optic rotation right	UNV 120-277V 120 120V 208 208V 240 240V 277 277V 347 347V 480 480V	BL Black Textured DB Dark Bronze Textured GYS Light Gray Smooth PS Platinum Silver Smooth WH White Textured CC Custom Color	F Fusing BSP Bird Spikes BC Backshieldid (available for FR, 2, 3, 4, 4W Optics)		

**WINS AT 80 DEGREES**

**DISTRIBUTION**

- FR Type 1/Front Row
- 2 Type 2
- 3 Type 3
- 4 Type 4
- 4W Type 4 Wide
- 5QM Type 5QM
- 5QN Type 5QN
- 5R Type 5R (rectangular)
- 5W Type 5W (round wide)
- TC Tennis Court

**MOUNTING**

- A Rectangular Arm (formerly RA) for square or round pole
- MAF Mast Arm Fitter (formerly SF2) for 2-3/8" OD horizontal arm
- K Knuckle (formerly PK2) limit to 30° tilt or 2-3/8" OD horizontal arm or vertical tenon
- WB Wall Bracket
- AD Universal Arm for square pole
- AD3 Universal Arm for 2.4"-4.1" round pole
- AD4 Universal Arm for 4.2"-5.3" round pole
- AD5 Universal Arm for 5.5"-5.9" round pole
- AD6 Universal Arm for 6.0"-6.5" round pole

**CONTROL OPTIONS**

- 7PR 7-Pin Receptacle only (shorting cap, photo control, or wireless control provided by others)
- 7PR-SC 7-Pin Receptacle w/Shorting Cap
- 7PR-TL 7-Pin Receptacle w/Twist Lock photo control
- SCP/\_F<sup>1,2,8</sup> Programmable Occupancy Sensor w/daylight control (120-277 volts only)
- GENI-XX<sup>3</sup> ENERGENI
- SWP<sup>1,4</sup> SiteSync Pre-Commission
- SWPM<sup>1,2,4</sup> SiteSync Pre-Commission w/ Sensor

**HOUSE SIDE SHIELD ACCESSORIES**

- HSS/EVP-L/90-FB/XXX 90° shield front or back
- HSS/EVP-L/90-LR/XXX 90° shield left or right
- HSS/EVP-L/270-FB/XXX 270° shield front or back
- HSS/EVP-L/270-LR/XXX 270° shield left or right
- HSS/EVP-L/360/XXX Full shield

(Replace XXX with notation for desired finish color)  
(Refer to page 5 for shield images)

**MOUNTING ACCESSORIES**

- VPL-AD-RPA3 2.4"-4.1" Round Pole Adapter for AD arm
- VPL-AD-RPA4 4.2"-5.3" Round Pole Adapter for AD arm
- VPL-AD-RPA5 5.5"-5.9" Round Pole Adapter for AD arm
- VPL-AD-RPA6 6.0"-6.5" Round Pole Adapter for AD arm

<sup>1</sup> Not available with other wireless control or sensor options  
<sup>2</sup> Specify mounting height; 8 = 8' or less, 40 = 9' to 40'  
<sup>3</sup> Specify routine setting code (example GENI-04). See ENERGENI brochure and instructions for setting table and options. Not available with sensor or SiteSync options.  
<sup>4</sup> Specify group end zone at time of order. See www.hubbelllighting.com/sitesync for further details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node  
<sup>5</sup> Only available with FR, 2, 3, 4, 4W and 5R distributions  
<sup>6</sup> Order at least one SCP-REMOTE per project location to program and control the occupancy sensor  
<sup>7</sup> This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: [http://fdn.beaconproducts.com/content/products/specs/specs\\_files/Viper\\_Large\\_LED\\_turtle\\_spec\\_sheet.pdf](http://fdn.beaconproducts.com/content/products/specs/specs_files/Viper_Large_LED_turtle_spec_sheet.pdf)

**PRECOMMISSIONED SITESYNC ORDERING INFORMATION:** When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit [www.hubbell-automation.com/products/sitesync/](http://www.hubbell-automation.com/products/sitesync/) or contact Hubbell Lighting tech support at (800) 345-4928.

SiteSync fixtures with Motion control (SWPM) require the mounting height of the fixture for selection of the lens.

Examples: VP-L/80L-235/4K7/3/UNV/A/DB/SWP/ SiteSync only  
 VP-L/80L-235/4K7/3/UNV/A/DB/SWPM-40F/ SiteSync with Motion Control

**Accessories and Services (Ordered Separately)**

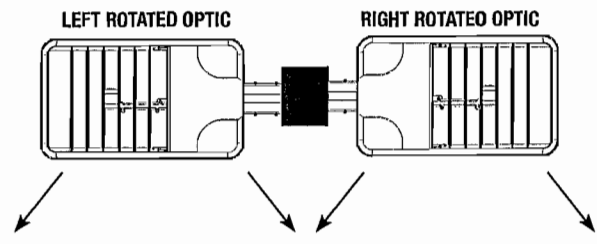
Catalog Number	Description
SCP-REMOTE	Remote Control for SCP/_F option. Order at least one per project to program and control the occupancy sensor
SWUSB*	SiteSync interface software loaded on USB flash drive for use with owner supplied PC (Windows based only). Includes SiteSync license, software and USB radio bridge node
SWTAB*	Windows tablet and SiteSync interface software. Includes tablet with preloaded software, SiteSync license and USB radio bridge node.
SWBRG	SiteSync USB radio bridge node only. Order if a replacement is required or if an extra bridge node is requested.
SW7PR*	SiteSync 7 Pin on fixture module On/Off/Dim, Daylight Sensor 120-480VAC

\* When ordering SiteSync at least one of these two Interface options must be ordered per project.  
 + Available as a SiteSync retrofit solution for fixtures with an existing 7pin receptacle.

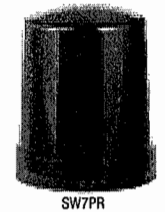
**Hubbell Control Solutions - Accessories (sold separately)**

Catalog Number	Description	HCS System
NXOFM-1R1D-UNV	On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with HubbNET Radio and Bluetooth® Radio, 120-480VAC	NX Distributed Intelligence™
WIR-RME-L	On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with wiSCAPE Radio, 110-480VAC	wiSCAPE® Lighting Control

For additional information related to these accessories please visit [www.hubbellcontrolsolutions.com](http://www.hubbellcontrolsolutions.com). Options provided for use with Integrated sensor, please view specification sheet ordering information table for details.



**SiteSync 7-Pin Module**



- SiteSync features in a new form
- Available as an accessory for new construction or retrofit applications (with existing 7-Pin receptacle)
- Does not interface with occupancy sensors



**PERFORMANCE DATA**

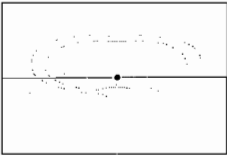
# LED'S	DRIVE CURRENT (MILLIAMPS)	SYSTEM WATTS	DISTRIBUTION TYPE	5K (5000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)					3K (3000K nominal, 70 CRI)				
				LUMENS	LPW <sup>1</sup>	B	U	G	LUMENS	LPW <sup>1</sup>	B	U	G	LUMENS	LPW <sup>1</sup>	B	U	G
				1A	18220	132	2	0	2	18783	137	2	0	2	16341	119	2	0
2	17228	125	2	0	2	17761	129	2	0	2	15452	112	2	0	2			
3	17257	125	2	0	3	17791	129	2	0	3	15478	112	2	0	3			
4	16864	123	1	0	4	17386	126	1	0	4	15125	110	1	0	3			
4W	16648	112	2	0	4	17163	115	2	0	4	14931	100	2	0	4			
5QM	17259	125	4	0	2	17792	129	4	0	2	15479	112	4	0	2			
5QN	18023	131	4	0	0	18580	135	4	0	0	16165	117	4	0	0			
5R	17410	127	4	0	4	17948	130	4	0	4	15615	113	4	0	4			
5W	16498	120	4	0	2	17009	124	4	0	3	14797	108	4	0	2			
TC	15925	110	2	1	2	16417	113	2	1	2	14283	98	1	1	2			
1A	23230	128	2	0	2	23948	132	2	0	2	20835	115	2	0	2			
2	21965	121	3	0	3	22645	125	3	0	3	19701	109	2	0	3			
3	22003	121	2	0	4	22683	125	3	0	4	19734	109	2	0	4			
4	21502	119	2	0	4	22167	122	2	0	4	19285	106	2	0	4			
4W	20810	112	2	0	4	21627	116	2	0	4	18664	100	2	0	4			
5QM	22005	121	4	0	2	22686	125	4	0	2	19736	109	4	0	2			
5QN	22979	127	4	0	1	23689	131	4	0	1	20610	114	4	0	0			
5R	22197	122	4	0	4	22884	126	4	0	4	19909	110	4	0	4			
5W	21035	116	5	0	3	21686	120	5	0	3	18867	104	4	0	3			
TC	19906	110	2	1	2	20522	113	2	1	2	17854	98	2	1	2			
1A	27849	121	2	0	2	28711	125	2	0	2	24978	108	2	0	2			
2	26334	114	3	0	3	27148	118	3	0	4	23619	102	3	0	3			
3	26378	114	3	0	4	27194	118	3	0	4	23659	103	3	0	4			
4	25777	112	2	0	4	26575	115	2	0	5	23120	100	2	0	4			
4W	25109	106	2	0	5	25886	109	2	0	5	22521	95	2	0	5			
5QM	26381	114	4	0	2	27196	118	4	0	2	23661	103	4	0	2			
5QN	27548	119	5	0	1	28400	123	5	0	1	24708	107	5	0	1			
5R	26611	115	5	0	5	27434	119	5	0	5	23868	104	4	0	4			
5W	25218	109	5	0	3	25998	113	5	0	3	22619	98	5	0	3			
TC	23864	103	2	1	2	24602	107	2	1	2	21404	93	2	1	2			
1A	27876	128	2	0	2	28738	132	2	0	2	25002	115	2	0	2			
2	26359	121	3	0	3	27174	125	3	0	4	23641	109	3	0	3			
3	26403	121	3	0	4	27220	125	3	0	4	23681	109	3	0	4			
4	25802	119	2	0	4	26600	122	2	0	5	23142	106	2	0	4			
4W	24651	113	3	0	5	25413	117	3	0	5	22109	102	2	0	4			
5QM	26406	121	4	0	2	27222	125	4	0	2	23684	109	4	0	2			
5QN	27575	127	5	0	1	28427	131	5	0	1	24732	114	5	0	1			
5R	26637	122	5	0	5	27460	126	5	0	5	23891	110	4	0	4			
5W	25242	116	5	0	3	26023	120	5	0	3	22640	104	5	0	3			
TC	23887	110	2	1	2	24626	113	2	1	2	21424	98	2	1	2			
1A	33419	121	3	0	2	34453	125	3	0	2	29974	108	2	0	2			
2	31600	114	3	0	4	32577	118	3	0	4	28342	102	3	0	4			
3	31654	114	3	0	5	32633	118	3	0	5	28390	103	3	0	4			
4	30933	112	2	0	5	31889	115	2	0	5	27744	100	2	0	5			
4W	30131	106	3	0	5	31063	109	3	0	5	27025	95	3	0	5			
5QM	31657	114	5	0	3	32636	118	5	0	3	28393	103	4	0	2			
5QN	33058	119	5	0	1	34080	123	5	0	1	29650	101	5	0	1			
5R	31933	115	5	0	5	32921	119	5	0	5	28641	104	5	0	5			
5W	30262	109	5	0	4	31198	113	5	0	4	27142	98	5	0	3			
TC	28642	104	2	1	3	29528	107	2	1	3	25690	93	2	1	3			
1A	35666	113	3	0	2	36769	117	3	0	2	31989	101	2	0	2			
2	33725	107	3	0	4	34768	110	3	0	4	30248	96	3	0	4			
3	33782	107	3	0	5	34827	110	3	0	5	30299	96	3	0	4			
4	33012	105	2	0	5	34033	108	2	0	5	29609	94	2	0	5			
4W	32158	106	3	0	5	33153	109	3	0	5	28842	95	3	0	5			
5QM	33785	107	5	0	3	34830	110	5	0	3	30302	96	5	0	2			
5QN	35280	112	5	0	1	36371	115	5	0	1	31643	100	5	0	1			
5R	34080	108	5	0	5	35134	111	5	0	5	30567	97	5	0	5			
5W	32302	102	5	0	4	33301	106	5	0	4	28972	92	5	0	4			
TC	30568	97	2	1	3	31513	100	3	1	3	27416	87	2	1	3			
1A	39569	101	3	0	4	43125	110	3	0	3	37518	96	3	0	2			
2	39569	101	3	0	4	40793	104	3	0	4	35490	91	3	0	4			
3	39619	101	3	0	5	40845	104	3	0	5	35535	91	3	0	5			
4	38723	98	3	0	5	39921	101	3	0	5	34731	88	2	0	5			
4W	37720	106	3	0	5	38887	109	3	0	5	33831	95	3	0	5			
5QM	39623	101	5	0	3	40848	104	5	0	3	35538	90	5	0	3			
5QN	41394	105	5	0	1	42675	109	5	0	1	37127	95	5	0	1			
5R	39969	102	5	0	5	41205	105	5	0	5	35848	91	5	0	5			
5W	37877	97	5	0	4	39048	100	5	0	4	33986	87	5	0	4			
TC	35850	90	3	1	3	36959	93	3	1	3	32154	81	3	1	3			

<sup>1</sup> Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.  
<sup>2</sup> 315W and 395W 3000K versions are not DLC OPL listed. Reference highlighted cells in table.

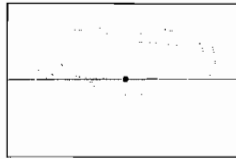


## PHOTOMETRICS

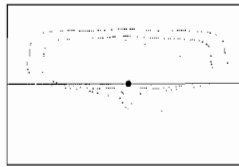
Type FR - Front Row/Auto Optic



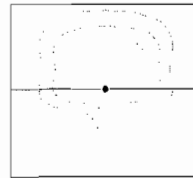
Type 2



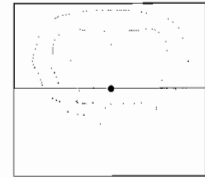
Type 3



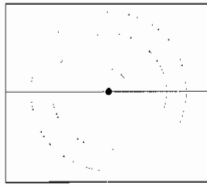
Type 4



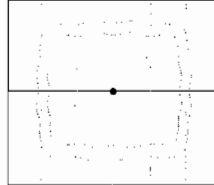
Type 4W



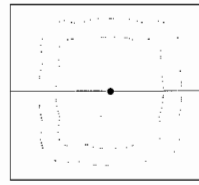
Type 5W



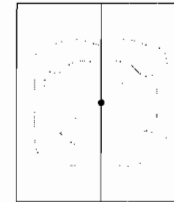
Type 5QN



Type 5QM



Type 5R



## ELECTRICAL DATA

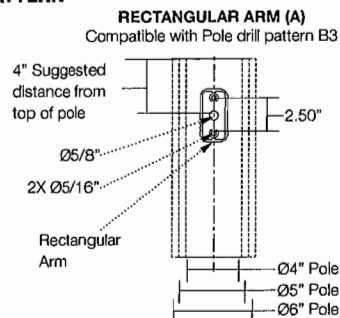
# OF LEDs	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (w)	CURRENT (Amps)
64	1	625 mA	120	135	1.4
			277		0.6
			347		0.5
			480		0.3
80	2	700 mA	120	180	1.8
			277		0.8
			347		0.6
			480		0.5
80	2	875 mA	120	235	2.4
			277		1.0
			347		0.8
			480		0.6
96	2	700 mA	120	220	2.2
			277		1.0
			347		0.8
			480		0.6
96	2	875 mA	120	280	2.8
			277		1.2
			347		1.0
			480		0.7
96	2	1000 mA	120	315	3.2
			277		1.4
			347		1.1
			480		0.8
96	2	1225 mA	120	395	4.0
			277		1.7
			347		1.4
			480		1.0

## PROJECTED LUMEN MAINTENANCE

AMBIENT TEMP.	0	25,000	50,000	TM-21-11 60,000	100,000	Calculated L70 (HOURS)
25°C / 77°C	1	0.98	0.97	0.97	0.96	>377,000

<sup>1</sup> Projected per IESNA TM-21-11  
Data references the extrapolated performance projections for the 700mA base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.

## DRILL PATTERN



## EPA

Config.	EPA	Config.	EPA
1	1.2	3 @ 120°	3.0
2 @ 90°	1.9	3 @ 90°	3.1
2 @ 180°	2.4	4 @ 90°	3.8



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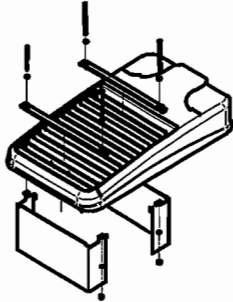


## TENON TOP POLE BRACKET ACCESSORIES (Order Separately)

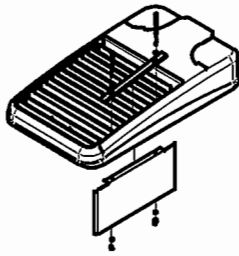
(2 3/8" OD tenon)

Catalog Number	Description
SETAVP-XX	Square tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
RETAVP-XX	Round tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
TETAVP-XX	Hexagonal tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
SETA2XX	Square tenon adapter (4 at 90°) for AD - Universal Arm mounting option only
RETA2XX	Round tenon adapter (4 at 90°) for AD3 - Universal Arm mounting option only
TETA2XX	Hexagonal tenon adapter (3 at 120°) for AD - Universal Arm mounting option only

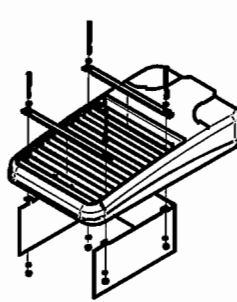
## HOUSE SIDE SHIELD FIELD INSTALL ACCESSORIES



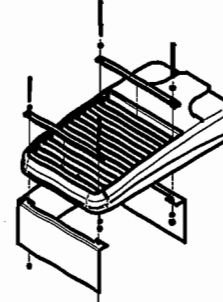
**HSS/EVP-L/90-FB/XXX**  
90° shield front or back  
(2 shields shown)



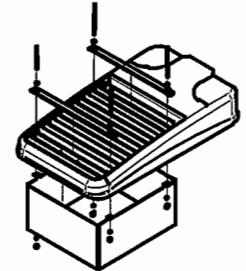
**HSS/EVP-L/90-LR/XXX**  
90° shield left or right  
(1 shield shown in left orientation)



**HSS/EVP-L/270-FB/XXX**  
270° shield front or back  
(1 shield shown in back orientation)



**HSS/EVP-L/270-LR/XXX**  
270° shield left or right  
(1 shield shown in right orientation)



**HSS/EVP-L/360/XXX**  
Full shield  
(1 shield shown)

## AD ARM MOUNTING INSTRUCTIONS

### DECORATIVE ARM (AD)

Compatible with pole drill pattern S2

