III. A.

690 Chesterfield Pkwy W ● Chesterfield MO 63017-0760
Phone: 636-537-4000 ● Fax 636-537-4798 ● www.chesterfield.mo.us

Architectural Review Board Staff Report

Project Type: Site Development Section Plan

Meeting Date: October 13, 2016

From: Justin Wyse
Senior Planner

CC: Aimee Nassif, Planning & Development Services Director

Location: North of Olive Street Rd., between Premium Way and Brasher St.

Applicant: Silverstone Hotel, LLC

Description: **Chesterfield Blue Valley, Lot 5B-2 (TownePlace Suites) SDSP**: Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 2.171 acre tract of land zoned "PC" Planned Commercial District located on the north side of Olive Street Rd., between Premium Way and Brasher St.

PROPOSAL SUMMARY

Silverstone Hotel, LLC, has submitted a Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevation, and Architect's Statement of Design for construction of a new hotel within the Chesterfield Blue Valley development. Primary building materials for the new building include fiber cement board, stone veneer, EIFS, and metal panels.

HISTORY OF SUBJECT SITE

In 2006, the first planned district was approved for the site and in the years since, the site-specific governing ordinance has been amended several times to include additional land into the planned district and to consolidate several ordinances. The most recent ordinance amendment occurred in 2014, when the City of Chesterfield approved Ordinance 2805 to modify development criteria of the development. Ordinance 2805 is the current ordinance of record.

Figure 1: Aerial of Subject Site

STAFF ANALYSIS

General Requirements for Site Design:

A. Site Relationships
The subject site is located within the Chesterfield Blue Valley development. A Site Development Concept Plan was previously approved for the development laying out the general configuration of the development. The proposed hotel is oriented on the northeast side of the site with parking on the south and west sides of the building. This design will minimize the impact of the parking field from the public roadway.

B. Circulation System and Access
The plan utilizes cross access between the subject site and future development to the south. Access off both Premium Way and Brasher St. with logical circulation systems through the site. Pedestrian access on the perimeter of the site is consistent with the approved Site Development Concept Plan and connections are provided from the perimeter of the site to the proposed building.

C. Topography
The site is generally flat and only minor changes are proposed as part of the development.

D. Retaining Walls
No new retaining walls are proposed on the site.

General Requirements for Building Design:

A. Scale

The proposed hotel is approximately 62 feet in height. While the proposed structure is larger than existing buildings in the area. The proposal complies with height requirements in the planned district ordinance for Chesterfield Blue Valley.

The proposed building includes variations in building materials and canopies to articulate the primary entrance to the building and achieve human scale.

B. Design

The proposed hotel has many elements specifically discussed in Section 04-04.D of the Unified Development Code.

Design and coordinate all façades with regard to color, types and numbers of materials, architectural form and detailing – All facades are designed with similar materials and design.

Avoid linear repetitive streetscapes – Variety in color and materials are used to add interest to the building. Several building offsets are visibile when looking at the footprint of the building on the site development section plan.

Provide entry recesses, plazas, roof overhangs, wall fins, projecting canopies or other similar features indicating the building's entry points while providing protection – A canopy is proposed on at the main entrance to the building to provide a clear sense of the primary entrance.

Screen rooftop equipment on all visible sides with materials that are an integral part of the architecture. Parapet walls or screen walls shall be treated as an integral part of the architecture and shall not visually weaken the design of the structure. – A detail verifying that new rooftop equipment will be fully screened is included in the submission.

Additionally, the Chesterfield Blue Valley development was approved with the Chesterfield Blue Valley Architectural Concept Standards. These standards are based on the "character, principles and theme of the Prairie Style of Architecture which contains horizontal lines, flat or hipped roofs with board overhanging eaves, and window groups in horizontal banks…" The Architect's Statement of Design specifically addresses how the concept fits within these standards including how the roof massing was thickened to comply with this design concept.

C. Materials and Color

As mentioned previously, primary building materials are fiber cement board, stone veneer, and EIFS. Staff has been working with the applicant on the material mix and the current proposal includes stone veneer which was not initially proposed. Inclusion of stone and / or brick elements into buildings is a specifically discussed as an element within the Chesterfield Blue Valley Architectural Concept Standards.

D. Landscape Design and Screening

Landscaping is proposed to comply with requirements of the Unified Development Code. Street trees and parking lot landscaping are complemented by landscaping along the perimeter of the building. The site has roadways on three sides, and the trash enclosure is along the northern side of the site. Additional landscaping is provided in this area; however, staff believes that extending the footprint of this landscaping and / or creating an arc of landscaping would be appropriate to screen the trash enclosure and provide a more complete design instead of an isolated feature.

E. Lighting

Several light fixtures are proposed for the new development. These include parking lot lighting, building mounted lighting, and bollards. These fixtures provide both utilitarian and architectural lighting throughout the site.

The proposal does include uplighting on the top of the building to highlight the architecture of the building. Additional information will be required by staff to ensure that all proposed lighting is fully captured by the roof overhangs and that the light does not extend beyond the building into the sky. As requested, an additional rendering has been provided by the applicant to show the nighttime impact of the proposed building lighting.

DEPARTMENTAL INPUT

Staff has reviewed the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design. 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 Chesterfield Blue Valley, Lot 5B-2 (TownePlace Suites) SDSP.

MOTION

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

1) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Chesterfield Blue Valley, Lot 5B-2 (TownePlace Suites) as presented, with a recommendation for approval (or denial) to the Planning Commission."

2) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Chesterfield Blue Valley, Lot 5B-2 (TownePlace Suites) to the Planning Commission with a recommendation for approval with the following conditions…"

Attachments

1. Architectural Review Packet Submittal

ARCHITECTURAL REVIEW BOARD
Project Statistics and Checklist

Date of First Comment Letter Received from the City of Chesterfield 09/16/2016

Project Title: Towneplace Suites **Location:** 18500 Blue Valley Ave. - Lot 5B

Developer: Jay Koshiya **Architect**: Chasen B. Garrett **Engineer**: Stock and Associates

PROJECT STATISTICS:

Size of site (in acres): 2.171 **Total Square Footage:** 64,756 **Building Height:** 63' - 8 3/4"

Proposed Usage: Hotel

Exterior Building Materials: Fiber Cement Board, Manufactured Stone Veneer, EIFS, Pre-finished metal panels

Roof Material & Design: Flat Roof, Low slope roof. Low slope roof areas will be rolled asphalt roofing.

Screening Material & Design: CMU Block with Manufactured stone veneer finish to match building

Description of art or architecturally significant features (if any): None are planned at this time.

ADDITIONAL PROJECT INFORMATION:

Checklist: Items to be provided in an 11" x 17" format

- ☑ **Color Site Plan with contours, site location map, and identification of adjacent uses.**
- ☑ **Color elevations for all building faces.**
- ☑ **Color rendering or model reflecting proposed topography.**
- ☑ **Photos reflecting all views of adjacent uses and sites.**
- ☑ **Details of screening, retaining walls, etc.**
- N/A ☐ **Section plans highlighting any building off-sets, etc. (as applicable)**
- ☑ **Architect's Statement of Design which clearly identifies how each section in the Standards has been addressed and the intent of the project.**
- ☑ **Landscape Plan.**
- ☑ **Lighting cut sheets for any proposed building lighting fixtures. (as applicable)**
- ☐ **Large exterior material samples. (to be brought to the ARB meeting)**
- N/A ☐ **Any other exhibits which would aid understanding of the design proposal. (as applicable)**
- ☑ **Pdf files of each document required.**

SITE PHOTOGRAPHS

CORNER OF PREMIUM WAY AND BLUE VALLEY AVE. LOOKING SOUTHEAST TOWARDS SITE.

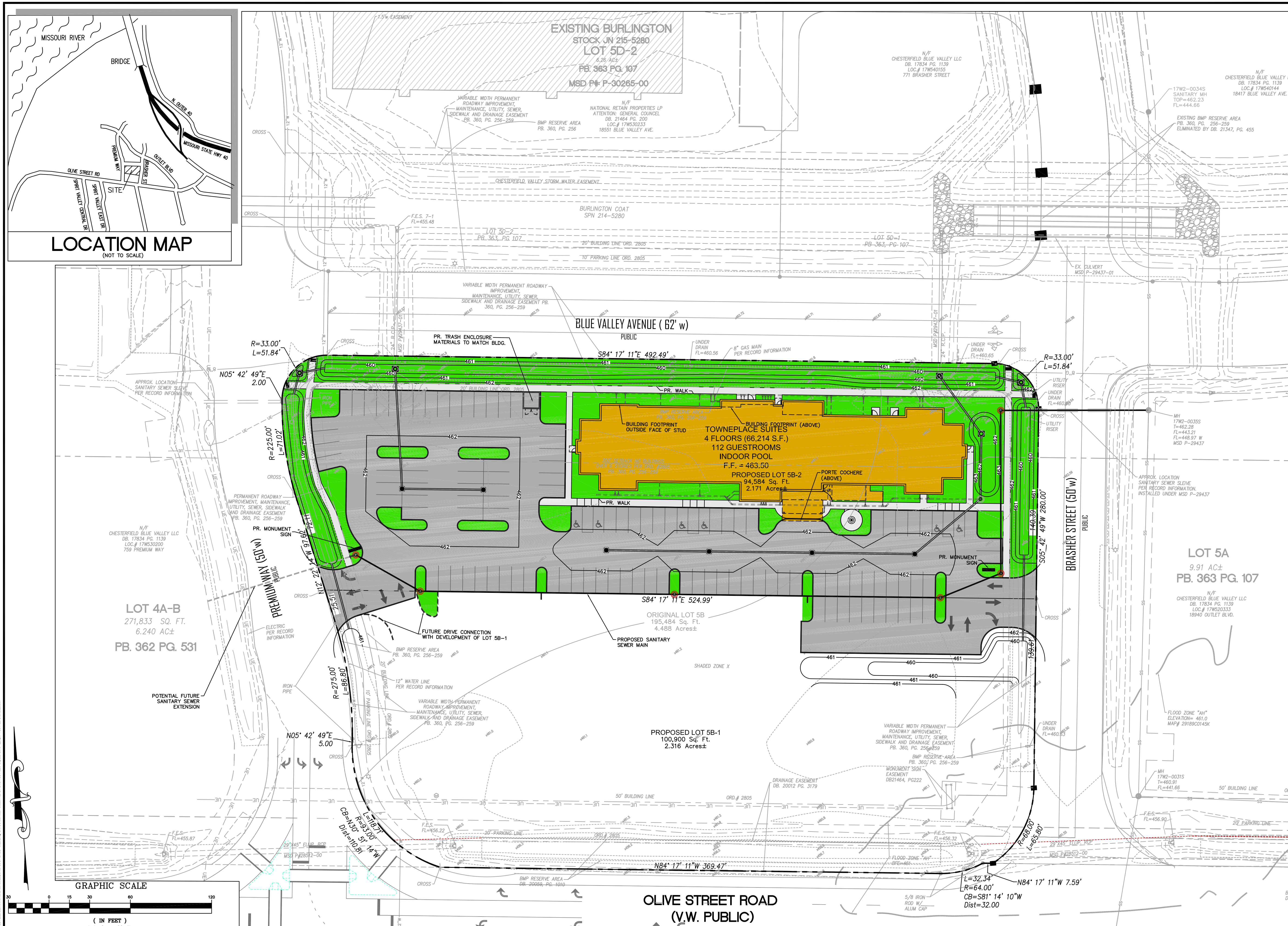
CORNER OF BLUE VALLEY AVE. AND BRASHER LOOKING SOUTHEAST TOWARDS SITE AND ADJACENT SITES

CORNER OF BLUE VALLEY AVE. AND BRASHER LOOKING SOUTHWEST TOWARDS SITE

CORNER OF BLUE VALLEY AVE. AND BRASHER LOOKING WEST TOWARDS SITE

CORNER OF PREMIUM WAY AND BLUE VALLEY AVE. LOOKING NORTHEAST TOWARDS BURLINGTON AND CAVENDERS

CORNER OF PREMIUM WAY AND BLUE VALLEY AVE. LOOKING SOUTH TOWARD SITE AND OLIVE ST.



PREPARED BY:

Stock & Associates Consulting Engineers, Inc.

257 Chesterfield Business Parkway
St. Louis, MO 63005 PH. (636) 530-9100 FAX (636) 530-9130
e-mail: general@stockassoc.com
Web: www.stockassoc.com

SITE DEVELOPMENT SECTION PLANS FOR:

LOT 5B-2

18500 BLUE VALLEY AVENUE - LOT 5B
CHESTERFIELD, MO

STATE OF MISSOURI
GEORGE MICHAEL STOCK
NUMBER PE-25116
PROFESSIONAL ENGINEER

9/28/16

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

REVISIONS:

DRAWN BY: K.M.S.	CHECKED BY: G.M.S.
DATE: 9/2/2016	JOB NO: 216-5750.1
M.S.D. P #: P-	BASE MAP #: 16W, 17W
S.L.C. H&T #: -	H&T S.U.P. #: -
M.D.N.R. #: -	

SHEET TITLE:
COLOR SITE PLAN

SHEET NO.:
1

1 SOUTH ELEVATION
3/32" = 1'-0"

EXTERIOR MATERIAL FINISH SCHEDULE				
MARK	MATERIAL	LOCATION	MANUFACTURER	FINISH DESCRIPTION
A-1	FASCIA-ALUMINUM	UPPER ROOFS	BENJAMIN MOORE	COLOR TO MATCH BENJAMIN MOORE "BUCKHORN - 987"
A-2	FASCIA OR COPING - ALUMINUM	UPPER ROOFS	BENJAMIN MOORE	COLOR TO MATCH ADJACENT WALL COLOR
A-3	FASCIA-ALUMINUM	LOWER ROOFS	BENJAMIN MOORE	COLOR TO MATCH BENJAMIN MOORE "WHITE DIAMOND - BW 2121-60"
E-1	EIFS	REFER TO DRAWINGS	DRYVIT	FINE FINISH - BENJAMIN MOORE "WEIMARANER - AF-155"
E-2	EIFS	REFER TO DRAWINGS	DRYVIT	FINE FINISH - BENJAMIN MOORE "SHAKESPEARE TAN - 228"
P-1	FIBER CEMENT PANEL	BOARD PANELS	NICHIHA	ILLUMINATION SERIES - HORIZONTAL INSTALLATION 18"H x 60"L PANELS WITHOUT SCORE - BENJAMIN MOORE "CARRIAGE RED - BMCW 250"
P-2	FIBER CEMENT PANEL	BOARD PANELS	NICHIHA	ROUGH SAWN SERIES - VERTICAL INSTALLATION 10'H x 18"W PANELS - TOBACCO COLOR
P-3	FIBER CEMENT PANEL	BOARD PANELS	NICHIHA	ILLUMINATION SERIES - HORIZONTAL INSTALLATION 18"H x 60"L PANELS WITHOUT SCORE - BENJAMIN MOORE "WHITE DIAMOND - BW 2121-60"
PT-1	FIBER CEMENT SOFFIT	SOFFIT UPPER ROOFS	NICHIHA	NICHISOFFIT - SMOOTH - PAINTED TO MATCH BENJAMIN MOORE "SAVORY ASH - 986 - GLOSSY FINISH"
ST-1	MANUFACTURED STONE VENEER	ACCENT WALLS	EL DORADO STONE	FIELDLEDGE - PADOVA

GENERAL ELEVATION NOTES

1. ALL MECHANICAL PENETRATIONS OF EXTERIOR WALLS, INCLUDING BUT NOT LIMITED TO INTAKE GRILLS, EXHAUST GRILLS, ETC. ARE TO BE PAINTED OR PRE-FINISHED TO MATCH THE ADJACENT WALL COLOR.

2 NORTH ELEVATION
3/32" = 1'-0"

PLAN STATUS

#	DESCRIPTION	DATE

chasen b. garrett
ARCHITECTS, PLLC
405 GARRISON AVE. SUITE 103
FORT SMITH, ARKANSAS 72901
479.652.0175

TOWNEPLACE SUITES
CHESTERFIELD, MISSOURI
EXTERIOR ELEVATIONS

STATE OF MISSOURI
CHASEN B. GARRETT
A-2010812
ARCHITECT
10/5/2016

DATE:
10/05/2016

SHEET NUMBER:
A001

1 WEST ELEVATION
1/8" = 1'-0"

EXTERIOR MATERIAL FINISH SCHEDULE

MARK	MATERIAL	LOCATION	MANUFACTURER	FINISH DESCRIPTION
A-1	FASCIA-ALUMINUM	UPPER ROOFS	BENJAMIN MOORE	COLOR TO MATCH BENJAMIN MOORE "BUCKHORN - 987"
A-2	FASCIA OR COPING - ALUMINUM	UPPER ROOFS	BENJAMIN MOORE	COLOR TO MATCH ADJACENT WALL COLOR
A-3	FASCIA-ALUMINUM	LOWER ROOFS	BENJAMIN MOORE	COLOR TO MATCH BENJAMIN MOORE "WHITE DIAMOND - BW 2121-60"
E-1	EIFS	REFER TO DRAWINGS	DRYVIT	FINE FINISH - BENJAMIN MOORE "WEIMARANER - AF-155"
E-2	EIFS	REFER TO DRAWINGS	DRYVIT	FINE FINISH - BENJAMIN MOORE "SHAKESPEARE TAN - 228"
P-1	FIBER CEMENT PANEL	BOARD PANELS	NICHIHA	ILLUMINATION SERIES - HORIZONTAL INSTALLATION 18"H x 60"L PANELS WITHOUT SCORE - BENJAMIN MOORE "CARRIAGE RED - BMCW 250"
P-2	FIBER CEMENT PANEL	BOARD PANELS	NICHIHA	ROUGH SAWN SERIES - VERTICAL INSTALLATION 10"H x 18"W PANELS - TOBACCO COLOR
P-3	FIBER CEMENT PANEL	BOARD PANELS	NICHIHA	ILLUMINATION SERIES - HORIZONTAL INSTALLATION 18"H x 60"L PANELS WITHOUT SCORE - BENJAMIN MOORE "WHITE DIAMOND - BW 2121-60"
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ST-1	MANUFACTURED STONE VENEER	ACCENT WALLS	EL DORADO STONE	FIELDLEDGE - PADOVA

GENERAL ELEVATION NOTES

1. ALL MECHANICAL PENETRATIONS OF EXTERIOR WALLS, INCLUDING BUT NOT LIMITED TO INTAKE GRILLS, EXHAUST GRILLS, ETC. ARE TO BE PAINTED OR PRE-FINISHED TO MATCH THE ADJACENT WALL COLOR.

2 EAST ELEVATION
1/8" = 1'-0"

PLAN STATUS

A#	DESCRIPTION	DATE

chasen b. garrett
ARCHITECTS, PLLC
405 GARRISON AVE. SUITE 103
FORT SMITH, ARKANSAS 72901
479.652.0175

TOWNEPLACE SUITES

CHESTERFIELD, MISSOURI

EXTERIOR ELEVATIONS

STATE OF MISSOURI
CHASEN B. GARRETT
ARCHITECT
A-2004010812
10/5/2016

DATE:
10/05/2016

SHEET NUMBER:
A002

PLAN STATUS		
Δ#	DESCRIPTION	DATE

chasen b. garrett
ARCHITECTS, PLLC
405 GARRISON AVE. SUITE 103
FORT SMITH, ARKANSAS 72901
479.652.0175

TOWNEPLACE SUITES

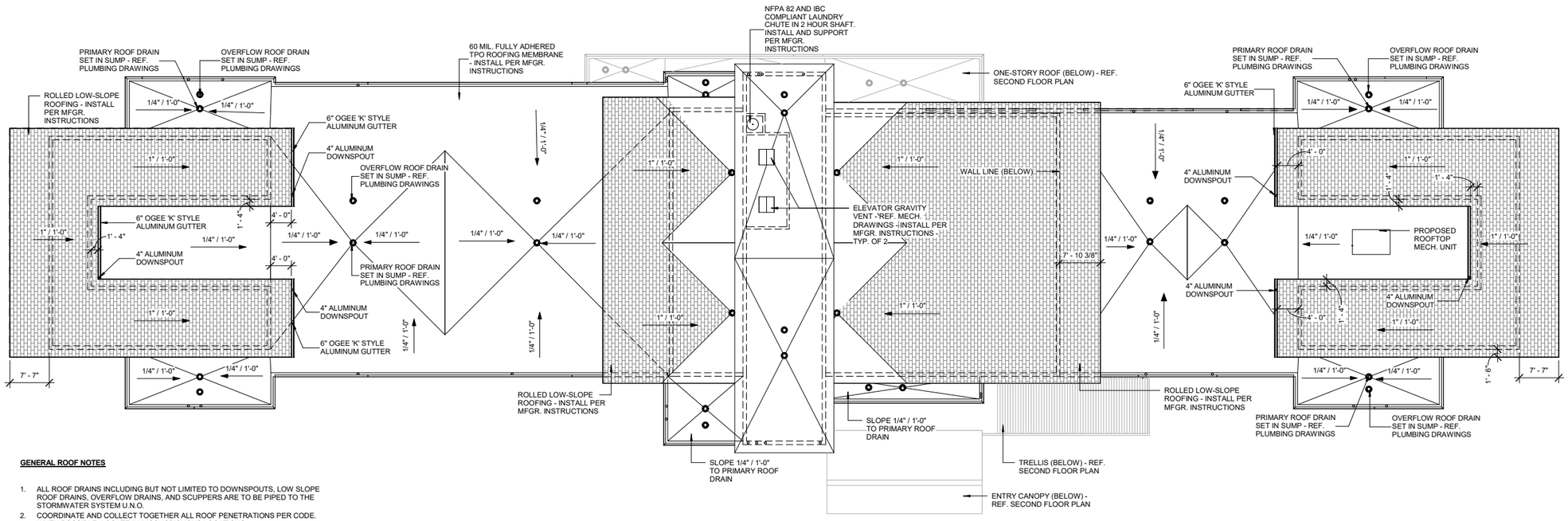
CHESTERFIELD, MISSOURI

EXTERIOR RENDERING

STATE OF MISSOURI
CHASEN B. GARRETT
NUMBER A-2010012
ARCHITECT
10/5/2016

DATE:
10/05/2016

SHEET NUMBER:
A003



1 ROOF PLAN
3/32" = 1'-0"

GENERAL ROOF NOTES

1. ALL ROOF DRAINS INCLUDING BUT NOT LIMITED TO DOWNSPOUTS, LOW SLOPE ROOF DRAINS, OVERFLOW DRAINS, AND SCUPPERS ARE TO BE PIPED TO THE STORMWATER SYSTEM U.N.O.
2. COORDINATE AND COLLECT TOGETHER ALL ROOF PENETRATIONS PER CODE. WHEN POSSIBLE- LOCATE IN INCONSPICUOUS LOCATIONS.
3. PROVIDE INSULATED ROOF DRAINS TO MITIGATE SOUND AND CONDENSATION.
4. INSULATE ALL ROOF DRAIN PIPING PER PLUMBING DRAWINGS. REFER TO PLUMBING DRAWINGS FOR ROOF DRAIN PIPING LAYOUT.
5. ALL LOW SLOPE ROOF EDGE METAL DETAILS ARE TO BE TESTED AND APPROVED IN ACCORDANCE WITH ANSI/SPRI ES-1 REQUIREMENTS AND TEST METHODS. ALL LOW SLOPE ROOF EDGE METAL DETAILS ARE TO BE INSTALLED PER ANSI/SPRI ES-1 REQUIREMENTS.
6. LOW SLOPE TPO ROOFING MEMBRANE BASIS OF DESIGN EQUALS MULE-HIDE FULLY ADHERED 60 MIL. TPO ROOFING MEMBRANE. GC TO UTILIZE MANUFACTURER DETAILS, INCLUDING BUT NOT LIMITED TO, ROOF PENETRATIONS, MECHANICAL PENETRATIONS, CURB DETAILS, BENT METAL EDGE DETAILS, ETC. TO ENSURE FULL MANUFACTURER WARRANTY IS PROVIDED.
7. ENSURE POSITIVE DRAINAGE IS PROVIDED AROUND ALL ROOF PENETRATIONS.
8. GC TO ENSURE ALL ROOFTOP EQUIPMENT REQUIRING MAINTENANCE TO BE INSTALLED MINIMUM 10' - 0" AWAY FROM ANY ROOF EDGE.

PLAN STATUS		
Δ#	DESCRIPTION	DATE

chasen b. garrett
ARCHITECTS, PLLC
405 GARRISON AVE. SUITE 103
FORT SMITH, ARKANSAS 72901
479.652.0175

TOWNEPLACE SUITES

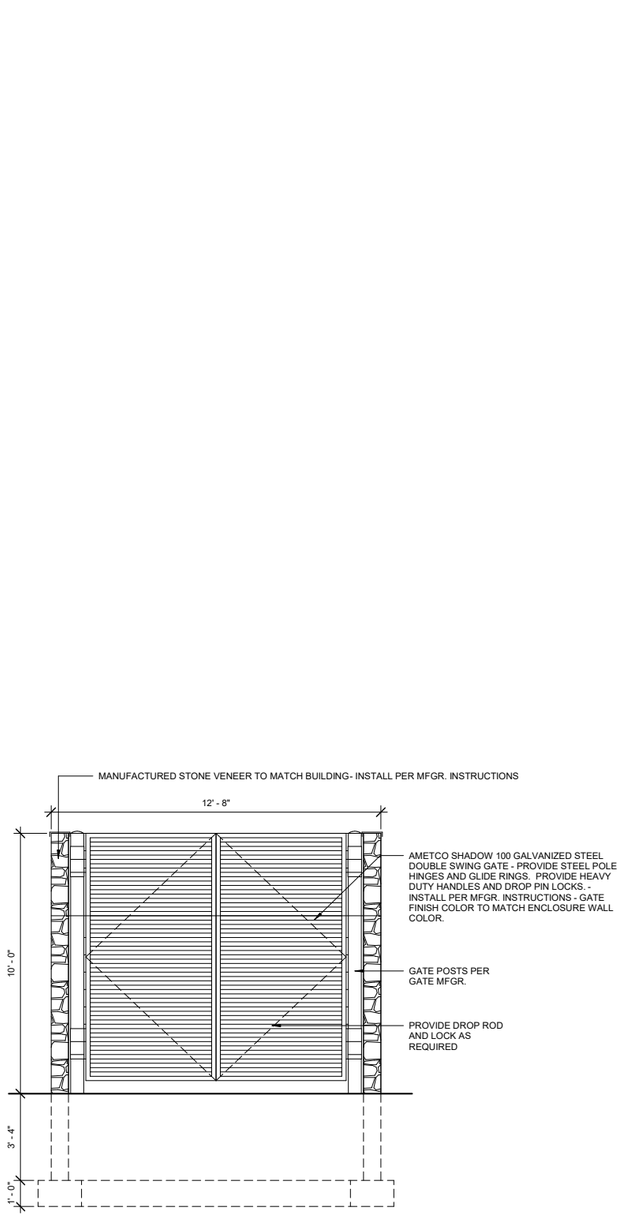
CHESTERFIELD, MISSOURI

ROOF PLAN

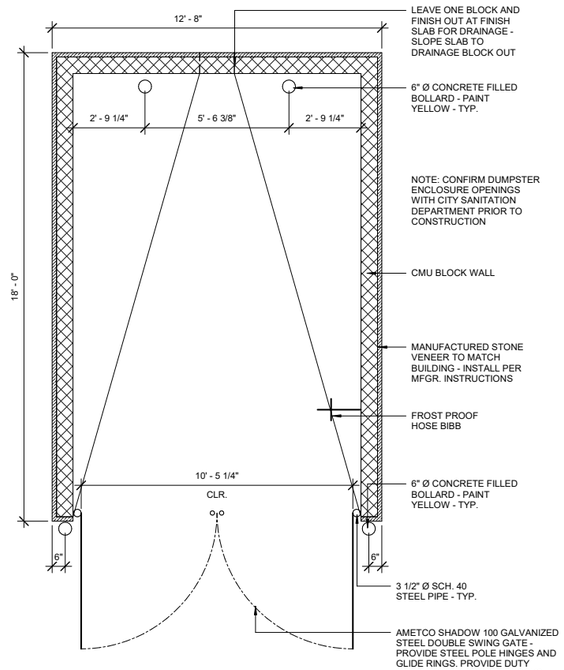
STATE OF MISSOURI
CHASEN B. GARRETT
A-2004010812
10/5/2016
ARCHITECT

DATE:
10/05/2016

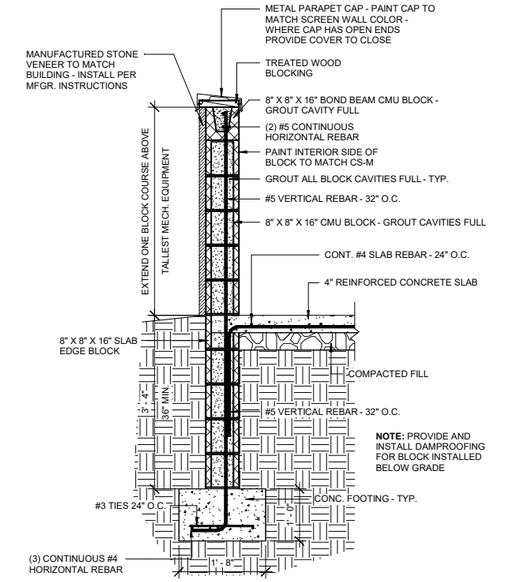
SHEET NUMBER:
A004



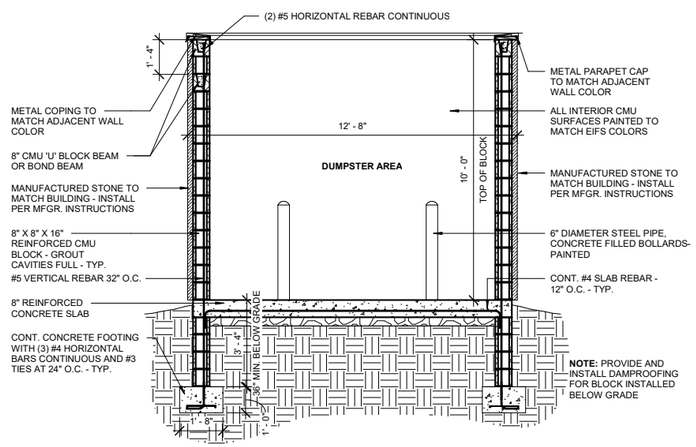
3 DUMPSTER ENCLOSURE GATE ELEVATION
3/8" = 1'-0"



2 DUMPSTER PLAN
3/8" = 1'-0"



4 CMU BLOCK MECH. SCEEN DETAL
3/4" = 1'-0"



1 DUMPSTER ENCLOSURE SECTION
3/8" = 1'-0"

PLAN STATUS		
Δ#	DESCRIPTION	DATE

chasen b. garrett
ARCHITECTS, PLLC
405 GARRISON AVE. SUITE 103
FORT SMITH, ARKANSAS 72901
479.652.0175

TOWNEPLACE SUITES

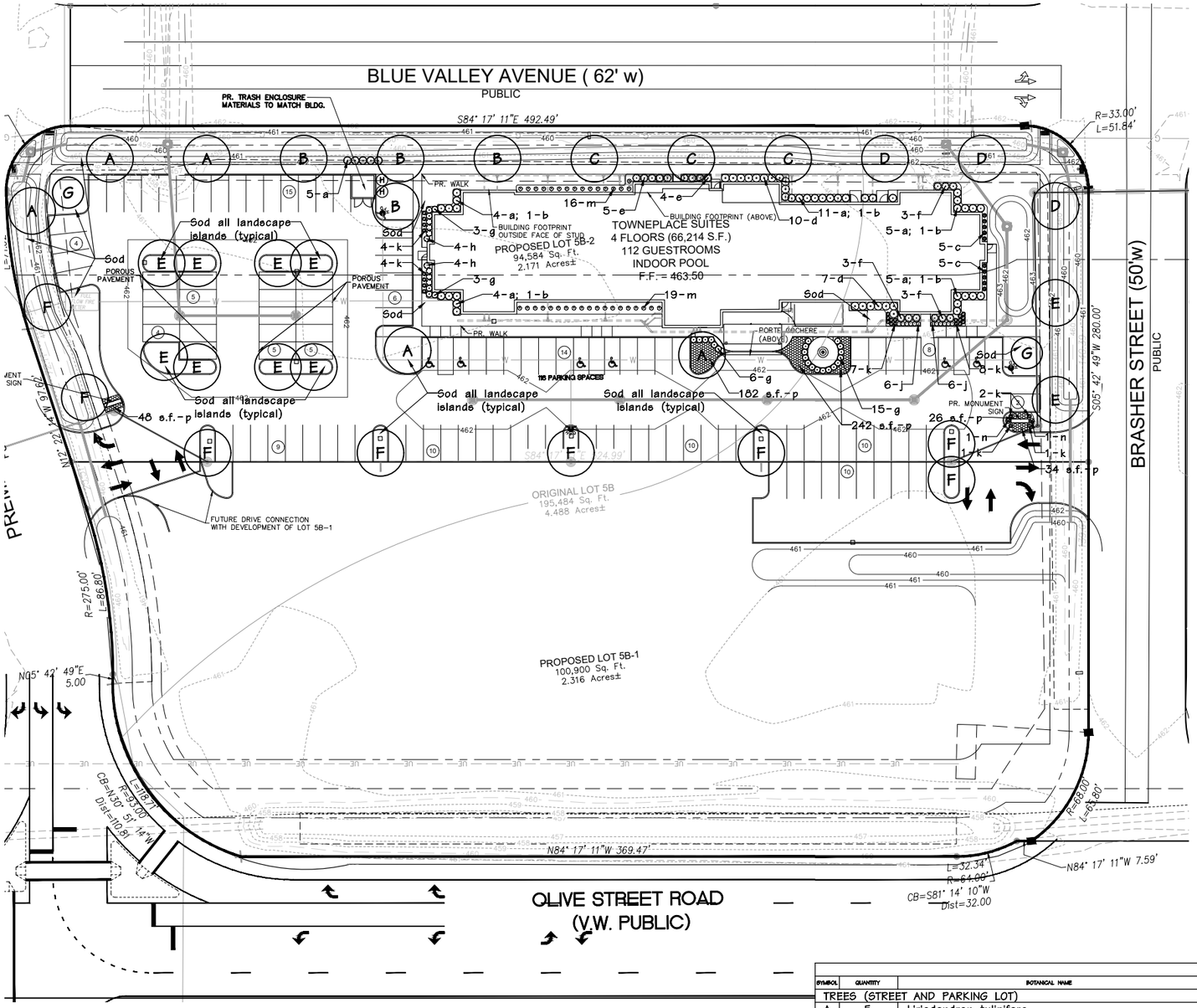
CHESTERFIELD, MISSOURI

SITE DETAILS

STATE OF MISSOURI
CHASEN B. GARRETT
A-2004010812
10/5/2016
ARCHITECT

DATE:
10/05/2016

SHEET NUMBER:
A005

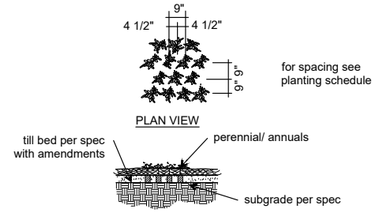


Landscape Plan

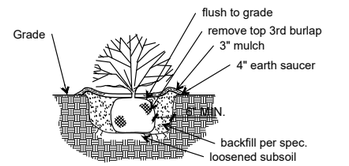
SCALE 1"=30'

0 30 60 120

Open Space = 38.05%

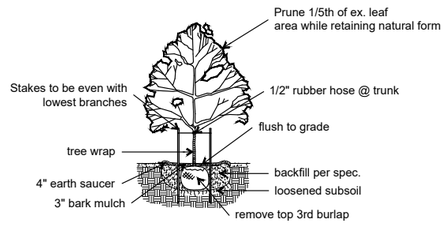


TYPICAL PERENNIAL PLANTING

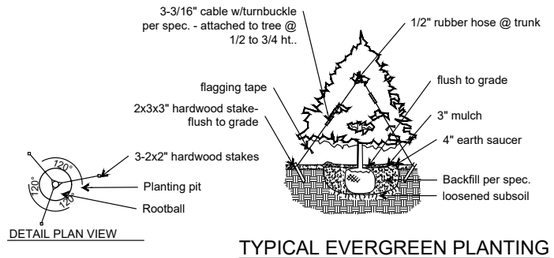


SCARIFY ROOT BALL OF ALL CONTAINER STOCK

TYPICAL SHRUB PLANTING



CANOPY TREE PLANTING



TYPICAL EVERGREEN PLANTING

PLANTING SCHEDULE

SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS	TYPE	GROWTH RATE/SIZE
TREES (STREET AND PARKING LOT)							
A	5	Liriodendron tulipifera	Tuliptree	2.5" cal	B&B	Deciduous	Fast / Large
B	4	Quercus coccinea	Scarlet Oak	2.5" cal	B&B	Deciduous	Medium-Fast / Large
C	3	Acer x freemanii 'Jeffersred' Autumn Blaze	Autumn Blaze Maple	2.5" cal	B&B	Deciduous	Fast / Large
D	3	Gleditsia triacanthos f. inermis 'Skycole' Skyline	Skyline Honeylocust	2.5" cal	B&B	Deciduous	Fast / Large
E	10	Ginkgo biloba 'Autumn Gold'	Autumn Gold Ginkgo (male)	2.5" cal	B&B	Deciduous	Slow-Medium / Large
F	8	Ostrya virginiana	Eastern Hop Hornbeam	2.5" cal	B&B	Deciduous	Slow-Medium / Medium
G	2	Carpinus caroliniana	American Hornbeam	2.5" cal	B&B	Ornamental	Medium / Small
H	2	Juniperus chinensis 'Keteleeri'	Keteleeri Juniper	6' ht	B&B	Evergreen	Slow-Medium / Small
SHRUBS AND GRASSES							
a	34	Ilex x meserveae Blue Princess	Blue Princess Holly	24"		Evergreen	
b	5	Ilex x meserveae Blue Prince	Blue Prince Holly	24"		Evergreen	
c	10	Buxus 'Green Gem'	Green Gem Boxwood	24"		Evergreen	
d	17	Buxus 'Green Velvet'	Green Velvet Boxwood	24"		Evergreen	
e	9	Ceanothus americanus	New Jersey Tea	24"		Deciduous	
f	9	Chaenomeles x superba 'Jet Trail'	Jet Trail Flowering Quince	24"		Deciduous	
g	27	Buxus 'Green Mound'	Green Mound Boxwood	24"		Evergreen	
h	8	Spiraea japonica 'Gold Mound'	Gold Mound Spirea	24"		Deciduous	
j	12	Itea virginica 'Sprich' Little Henry	Little Henry Itea	24"		Deciduous	
k	27	Pennisetum alopecuroides 'Hameln'	Hameln Fountain Grass	5 gal		Ornamental	
m	35	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	24"		Deciduous	
n	2	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	5 gal		Ornamental	
p	532 s.f.	Annuals	To Be Selected	12" o.c.			

JERALD L. SAUNDERS NUMBER LA-7 LANDSCAPE ARCHITECT STATE OF MISSOURI
9/29/16
Jerald Saunders - Landscape Architect
MO License # LA-007

Consultants:

Towne Place Suites
18500 Blue Valley Avenue - Lot 5B
Chesterfield, Missouri

Revisions:

Date	Description	No.
9/29/16	Plan Changes	1

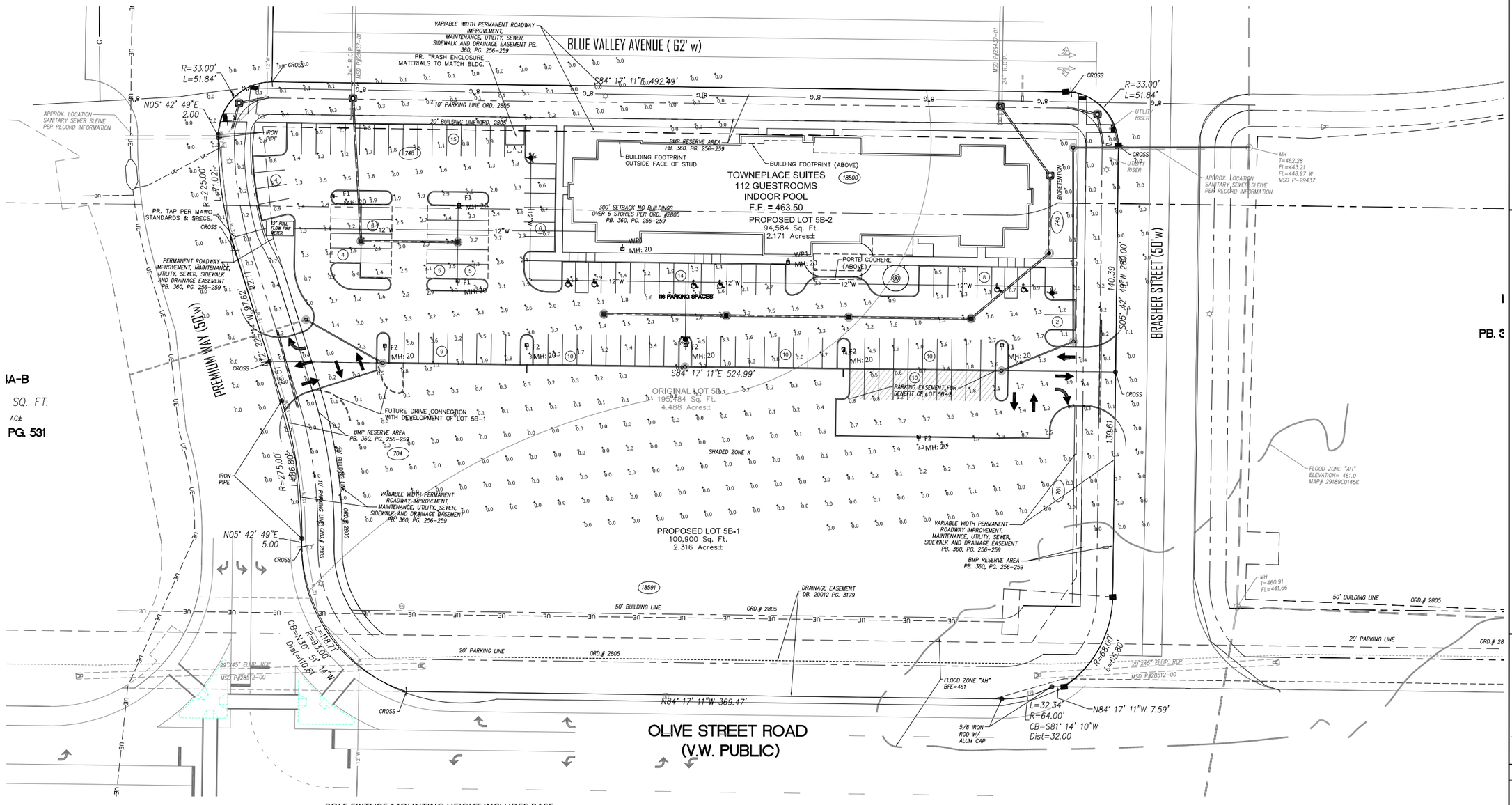
Drawn: KP
Checked: RS

loomisAssociates
landscapeArchitects/planners
707 Saint 40 Park Drive, Suite 135
Chesterfield, MO 63005-1156
636/519-9458 fax: 636/519-0297
e-mail: larla@loomis-associates.com
Loomis Associates Inc.
Missouri State Certificate of Authority #: LAC #000019

Sheet Title: Landscape Plan

Sheet No: L-1

Date: 9/2/16
Job #: 813.053



PLAN-B

SQ. FT.

AC±

PG. 531

POLE FIXTURE MOUNTING HEIGHT INCLUDES BASE

LIGHT LEVELS CALCULATED ON THE GROUND

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
SITE	Illuminance	Fc	1.99	5.6	0.5	3.98	11.20
SPILL LIGHT	Illuminance	Fc	0.11	3.4	0.0	N.A.	N.A.

Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description
→	4	F1	SINGLE	19000	1.000	GSM-AM-200-MP-MT-AS-FG
→	5	F2	SINGLE	18100	1.000	GSM-AM-200-MP-MT-3S-FG-HS
→	2	WP1	SINGLE	18100	1.000	GSM-AM-200-MP-MT-3S-FG-HS WALL MOUNT

DESIGN IS BASED ON CURRENT INFORMATION PROVIDED AT THE TIME OF REQUEST. ANY CHANGES IN MOUNTING HEIGHT OR LOCATION, LAMP WATTAGE, LAMP TYPE, AND EXISTING FIELD CONDITIONS, THAT EFFECT ANY OF THE PREVIOUSLY MENTIONED, WILL VOID CURRENT LAYOUT AND REQUIRE A CHANGE REQUEST AND RECALCULATION.

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

PREPARED BY:
STOCK & ASSOCIATES
Consulting Engineers, Inc.
257 Chesterfield Businesse Parkway
St. Louis, MO 63005 PH. (636)
530-8100 FAX (636) 530-8101
e-mail: generalinfo@stockassoc.com
Web: www.stockassoc.com

SITE DEVELOPMENT SECTION PLANS FOR:

TOWNEPLACE SUITES

18500 BLUE VALLEY AVENUE - LOT 5B
CHESTERFIELD, MO

STATE OF MISSOURI
GEORGE MICHAEL STOCK
NUMBER PE-25116
PROFESSIONAL ENGINEER
9/2/16

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

REVISIONS:

DRAWN BY: K.M.S.	CHECKED BY: G.M.S.
DATE: 9/2/2016	JOB NO. 216-5750.1
M.S.D. P #: P--	BASE MAP #: 16W, 17W
S.L.C. H&T #: --	H&T S.U.P. #: --
M.D.N.R. #: --	

SHEET TITLE:
PHOTOMETRIC PLAN

SHEET NO.:
SDSP-3

McGraw-Edison

DESCRIPTION

The Galleria luminaires beauty and versatility make it an excellent choice for roadway and general area lighting applications. An aesthetic reveal in the formed aluminum housing gives the Galleria luminaire a distinctive look while a variety of mounting options and lamp wattages provide maximum flexibility.

The Galleria luminaires superior light distributions makes it the optimum choice for almost any small, medium or large area lighting application.

Catalog #		**Type**	
Project			
Comments	Site Lighting	**Date**	
Prepared by			

SPECIFICATION FEATURES

Construction
HOUSING: Formed aluminum housing with stamped reveal has interior-welded seams for structural integrity and is finished in premium TGIC polyester powder coat. U.L. listed and CSA certified for wet locations. DOOR: Formed aluminum door has heavy-duty hinges, captive retaining screws and is finished in premium TGIC polyester powder coat. (Spider mount unit has steel door.)

Electrical
BALLAST TRAY: Ballast tray is hard-mounted to housing interior for cooler operation.

Optics
REFLECTOR: Choice of fourteen high efficiency optical systems utilizing horizontal and vertical lamp orientations. Optional high efficiency segmented optical systems constructed of premium 95% reflective anodized aluminum sheet. Optical segments are rigidly mounted inside a thick gauge aluminum housing for superior protection. All segment faces are clean of rivet heads, tabs or other means of attachment which may cause streaking in the light distribution. Standard with mogul-base socket. All optical modules feature quick disconnect wiring plugs and are field rotatable in 90° increments. LENS: Convex tempered glass lens or flat glass.

Mounting
Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during assembly. Specify arm-included mounting for contractor-friendly single carton packaging of housing and arm.

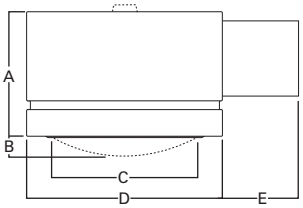
GSM/GSL
GALLERIA SQUARE

100 - 1000W
Pulse Start Metal Halide
High Pressure Sodium
Metal Halide

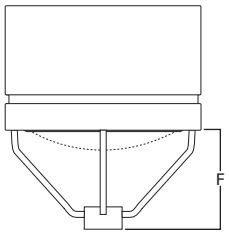
ARCHITECTURAL AREA LUMINAIRE

DIMENSIONS

ARM MOUNT



SPIDER MOUNT



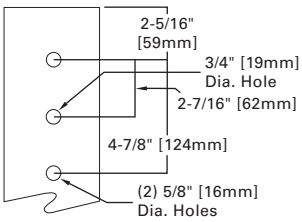
DIMENSIONAL DATA

Fixture	A	B	C	D	E	F
GSM	11" [279mm]	3-1/2" [89mm]	19-1/4" [480mm]	21-3/4" [552mm]	6" [152mm]	15" [381mm]
					14" [356mm]	16" [406mm]
GSL	14-1/2" [279mm]	4-1/4" [108mm]	25-7/8" [657mm]	27" [686mm]	6" [152mm]	18-3/4" [476mm]
					14" [356mm]	19-3/4" [502mm]

NOTE: Top cap used on GSM with 1000W flat glass vertically lamped optics only.

ARM DRILLING

TYPE "M"



ENERGY DATA

CWA Ballast Input Watts
150W MP HPF (185 Watts)
175W MP HPF (198 Watts) Ⓔ
250W MP HPF (283 Watts) Ⓔ
250W HPS HPF (295 Watts)
400W MP HPF (452 Watts) Ⓔ
400W HPS HPF (457 Watts)
750W MP HPF (820 Watts)
1000W MH HPF (1080 Watts)
1000W HPS HPF (1100 Watts)

EPA

Effective Projected Area: (Sq. Ft.)
[Without Arm]
GSM: 2.40 **GSL**: 3.90
[Spider Mount]
GSM: 2.86 **GSL**: 4.45

SHIPPING DATA

Approximate Net Weight:
GSM: 79 lbs. (36 kgs.)
GSL: 88 lbs. (40 kgs.)

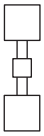
Powering Business Worldwide

MOUNTING CONFIGURATIONS AND EPAS

Wall Mount

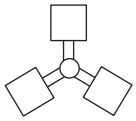
Arm Mount Single
GSM: 2.9
GSL: 4.4

Arm Mount 2 @ 180°
GSM: 5.8
GSL: 8.8

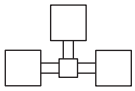


Arm Mount 2 @ 90°
GSM: 6.8
GSL: 9.8

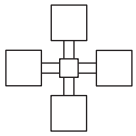
Arm Mount 3 @ 120°
(Round Pole Only)
GSM: 9.2
GSL: 13.7



Arm Mount 3 @ 90°
GSM: 9.2
GSL: 13.7



Arm Mount 4 @ 90°
GSM: 10.4
GSL: 15.6



ORDERING INFORMATION

Sample Number: GSM-AM-400-MP-MT-3V-SG-BZ-L

Product Family [1]	Mounting Method	Lamp Wattage [5]		Lamp Type	Voltage [10]	Distribution [7]	Lens Type	Color [18]
GSM=Galleria Square Medium **GSL**=Galleria Square Large	**Arm Mount** **AM**=Arm Mount [2] **AIR**=Arm Included for Round Pole [3] **AIS**=Arm Included for Square Pole [3] **Spider Mount** **SM2**=Spider Mount (3" O.D. Tenon) **SM3**=Spider Mount (3-1/2" O.D. Tenon) [4]	**Pulse Start Metal Halide** **150**=150W **175**=175W **200**=200W **250**=250W **320**=320W **350**=350W **400**=400W [6] **450**=450W [7] **750**=750W **875**=875W **1000**=1000W [8]	**High Pressure Sodium** **100**=100W **150**=150W **250**=250W **400**=400W **750**=750W **1000**=1000W [8] **Metal Halide** [9] **175**=175W **250**=250W **400**=400W **1000**=1000W [8]	**MP**=Pulse Start Metal Halide **HPS**=High Pressure Sodium **MH**=Metal Halide [9]	**120V**=120V **208V**=208V **240V**=240V **277V**=277V **347V**=347V **480V**=480V **MT**=Multi-Tap [11] **TT**=Triple-Tap [11] **5T**=5-Tap [12]	**Horizontal Lamp** **1F**=Type I Formed [13] **2F**=Type II Formed **2S**=Type II Segmented [14] **3F**=Type III Formed **3S**=Type III Segmented [14] **4S**=Type IV Segmented [14] **5S**=Type V Segmented [14] **FT**=Forward Throw **SL**=Spill Light Eliminator [15] **CA**=Cutoff Asymmetric w/EHS **Vertical Lamp** **AR**=Area Round **AS**=Area Square **3V**=Type III Vertical **RW**=Rectangular Wide [16]	**FG**=Flat Glass [17] **SG**=Sag Glass	**AP**=Grey **BZ**=Bronze **BK**=Black **WH**=White **DP**=Dark Platinum **GM**=Graphite Metallic

Options (Add as Suffix)

CEC=California Title 20 Compliant Ballast (Applies to 175-320W and 400W MP Only)
F=Single Fuse (120, 277 or 347V)
FF=Double Fuse (208, 240 or 480V)
L=Lamp Included
EM=Quartz Restrike w/Delay [19]
Q=Quartz Restrike [19]
R=NEMA Twistlock Photocontrol Receptacle
EHS=External Adjustable House Side Shield
HS=House Side Shield [20]
VS=Vandal Shield [21]

Accessories (Order Separately) [22]

GSM-EXTHS=External House Side Shield - 2.24 EPA
GSL-EXTHS=External House Side Shield - 2.46 EPA
MA1004XX=14" Arm for Square Pole - 1.0 EPA [23]
MA1005XX=6" Arm for Square Pole - 0.5 EPA
MA1006XX=Direct Mount Kit for Square Pole
MA1007XX=14" Arm for Round Pole - 1.0 EPA [23]
MA1008XX=6" Arm for Round Pole - 0.5 EPA
MA1009XX=Direct Mount Kit for Round Pole
MA1029XX=Wall Mount Bracket with 10" Arm
MA1208XX=11-1/2" Arm and Round Pole Adapter - 0.8 EPA
OA1066XX=Mast Arm Adapter
MA1010XX=Single Tenon Adapter for 3-1/2" O.D. Tenon
MA1011XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon
MA1012XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon
MA1013XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon
MA1014XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon
MA1015XX=2@120° Tenon Adapter for 3-1/2" O.D. Tenon
MA1016XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon
MA1017XX=Single Tenon Adapter for 2-3/8" O.D. Tenon
MA1018XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon
MA1019XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon
MA1045XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon
MA1048XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon
MA1049XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon
MA1061=House Side Shield for GSM - Field Installed [24]
MA1062=House Side Shield for GSL - Field Installed [24]
OA/RA1016=NEMA Twistlock Photocontrol - Multi-Tap
OA/RA1027=NEMA Twistlock Photocontrol - 480V
OA/RA1201=NEMA Twistlock Photocontrol - 347V

NOTES:
1. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
2. Arm not included. See Accessories.
3. Arm length varies based on housing size: 11-1/2" for GSM and 14" for GSL.
4. Available on GSL housing only.
5. Standard with mogul-base lamp sockets. Wattage availability varies by housing size, see wattage table.
6. Requires reduced envelope ED-28 lamp when used with GSM housing and flat glass vertically lamped optics.
7. 450W Pulse start metal halide only available in vertical lamp orientations (AR, AS, 3V or RW distributions).
8. Requires reduced envelope BT-37 lamp when used with GSM housing.
9. 175, 250 and 400W Metal halide available for non-US markets only.
10. Products also available in non-US voltages and 50Hz for international markets. Consult factory for availability and ordering information.
11. Multi-Tap ballast is 120/208/240/277V wired 277V. Triple-Tap ballast is 120/277/347V wired to 347V.
12. 5-Tap ballast is 120/208/240/277/480V wired 480V. Only available in 400-1000W.
13. Medium housing fixture only.
14. Maximum wattage on segmented optical distributions is 400W. 400W Metal Halide lamp must use reduced envelope ED-28 lamp. Not available in GSL housing.
15. Must use reduced envelope lamp, not available in GSL housing.
16. RW optic not available with flat glass.
17. 1000W GSL with flat glass requires BT-37 lamp and is not available in AS, RW, SL or 3V distributions.
18. Other finish colors available, including a full line of RAL color matches. Consult your lighting representative at Eaton for more information.
19. Quartz options not available with SL optics.
20. House side shield not available with 5S, RW, AS, AR, SL and CA optics.
21. Arm mount only, 400W maximum.
22. Replace XX with color suffix.
23. Use for mounting fixtures at 90° increments.
24. Compatible with sag lens vertical optics only.

Lumark

DESCRIPTION

The patented Lumark Crosstour™ MAXX LED Wall Pack Series of luminaries provides low-profile architectural style with super bright, energy-efficient LEDs. The rugged die-cast aluminum construction, back box with secure lock hinges, stainless steel hardware along with a sealed and gasketed optical compartment make Crosstour impervious to contaminants. The Crosstour MAXX wall luminaire is ideal for wall/surface, inverted mount for facade/canopy illumination, perimeter and site lighting. Typical applications include pedestrian walkways, building entrances, multi-use facilities, industrial facilities, perimeter parking areas, storage facilities, institutions, schools and loading docks.

		Type
Catalog #		Z29
Project		
Comments	Wall Pack Light	Date
Prepared by		

SPECIFICATION FEATURES

Construction
Low-profile LED design with rugged one-piece, die-cast aluminum back box and hinged removable door. Matching housing styles incorporate both a full cutoff and refractive lens design. Full cutoff and refractive lens models are available in 41W and 79W. Patent pending secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes four 1/2" NPT threaded conduit entry points. The back box is secured by four lag bolts (supplied by others). External fin design extracts heat from the fixture surface. One-piece silicone gasket seals door and back box. Not recommended for car wash applications.

Optical
Silicone sealed optical LED chamber incorporates a custom engineered reflector providing high-efficiency illumination. Full cutoff models integrate an impact-resistant molded refractive prism optical lens assembly meeting requirements for Dark Sky compliance. Refractive lens models incorporate a molded lens assembly designed for maximum forward throw. Solid state LED Crosstour luminaries are thermally optimized with two lumen packages in cool 5000K or neutral warm 3500K LED color temperature (CCT).

Electrical
LED driver is mounted to the die-cast aluminum housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 41W and 79W models operate in -40°C to 40°C [-40°F to 104°F]. High ambient 50°C [122°F] models available. Crosstour MAXX luminaires maintain greater than 90% of initial light output after 72,000 hours of operation. Four half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 120-277V 50/60Hz, 480V 60Hz, or 347V 60Hz electrical operation. 480V is compatible for use with 480V Wye systems only.

Emergency Egress
Optional integral cold weather battery emergency egress includes emergency operation test switch, an AC-ON indicator light and a premium extended rated sealed maintenance-free nickel-metal hydride battery pack. The separate emergency lighting LEDs are wired to provide redundant emergency lighting. Listed to UL Standard 924, Emergency Lighting.

Area and Site Pole Mounting
Optional extruded aluminum 6-1/2" arm features internal bolt guides for supplied twin support rods, allowing for easy positioning of the fixture during installation to pole. Supplied with round plate adapter plate. Optional tenon adapter fits 2-3/8" or 3-1/2" O.D. Tenon.

Finish
Crosstour MAXX is protected with a super TGIC carbon bronze or summit white polyester powder coat paint. Super TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life.

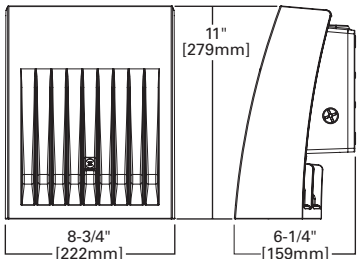
Warranty
Five-year warranty.

XTOR
CROSSTOUR
MAXX LED

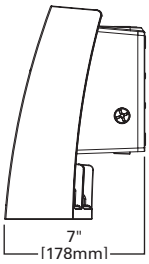
APPLICATIONS:
WALL / SURFACE
INVERTED
SITE LIGHTING

DIMENSIONS

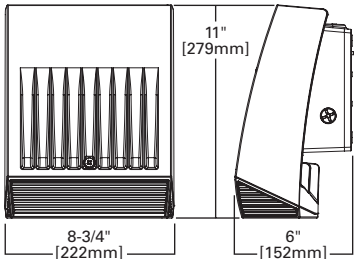
FULL CUTOFF



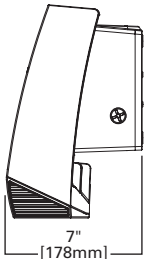
DEEP BACK BOX



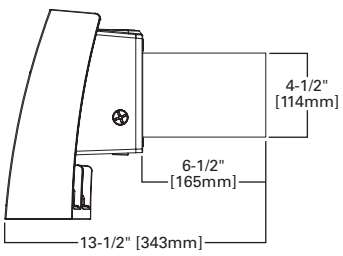
REFRACTIVE LENS



DEEP BACK BOX

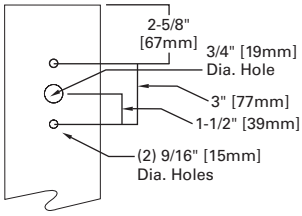


OPTIONAL POLE MOUNT ARM

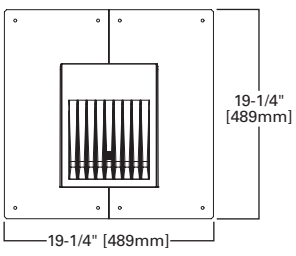


ARM DRILLING

TYPE "C"



ESCUTCHEON PLATES



CERTIFICATION DATA
UL/cUL Wet Location Listed
LM79 / LM80 Compliant
ROHS Compliant
NOM Compliant Models
3G Vibration Tested
UL924 Listed (CBP Models)
IP66 Rated
DesignLights Consortium™ Qualified*

TECHNICAL DATA
40°C Ambient Temperature
External Supply Wiring 90°C Minimum

EPA
Effective Projected Area (Sq. Ft.):
XTOR5A/XTOR9A=0.54
With Pole Mount Arm=0.98

SHIPPING DATA:
Approximate Net Weight:
12-15 lbs. [5.4-6.8 kgs.]

Powering Business Worldwide

* www.designlights.org

POWER AND LUMENS BY FIXTURE MODEL

LED Information	XTOR5A	XTOR5ARL	XTOR5A-N	XTOR5ARL-N
Delivered Lumens	4,409	4,831	4,136	3,744
B.U.G. Rating	B1-U0-G1	B1-U0-G2	B1-U0-G1	B1-U0-G2
CCT (Kelvin)	5000K	5000K	3500K	3500K
CRI (Color Rendering Index)	65	65	70	70
Power Consumption (Watts)	41W	41W	43W	42W

LED Information	XTOR9A	XTOR9ARL	XTOR9A-N	XTOR9ARL-N
Delivered Lumens	7,079	7,367	6,468	6,036
B.U.G. Rating	B1-U0-G1	B1-U0-G2	B1-U0-G1	B1-U0-G2
CCT (Kelvin)	5000K	5000K	3500K	3500K
CRI (Color Rendering Index)	65	65	70	70
Power Consumption (Watts)	79W	82W	79W	81W

EGRESS Information	XTOR5A and XTOR9A Full Cutoff CBP Egress LED	XTOR5A and XTOR9A Refractive Lens CBP Egress LED
Delivered Lumens	509	468
B.U.G. Rating	N.A.	N.A.
CCT (Kelvin)	4000K	4000K
CRI (Color Rendering Index)	65	65
Power Consumption (Watts)	1.8W	1.8W

CURRENT DRAW

Voltage	Model Series			
	XTOR5A	XTOR9A	XTOR5A-CBP (Fixture/Battery)	XTOR9A-CBP (Fixture/Battery)
120V	0.35	0.67	0.60/0.25	0.92/0.25
208V	0.20	0.39	- -	- -
240V	0.18	0.34	- -	- -
277V	0.15	0.29	0.36/0.21	0.50/0.21
347V	0.14	0.26	- -	- -
480V	0.10	0.19	- -	- -

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (Hours)
XTOR5A Model		
25°C	> 92%	> 290,000
40°C	> 91%	> 290,000
50°C	> 89%	> 250,000
XTOR9A Model		
25°C	> 91%	> 260,000
40°C	> 90%	> 230,000
50°C	> 82%	> 130,000

ORDERING INFORMATION

Sample Number: XTOR5A-N-WT-PC1

Series [1]	**LED Kelvin Color**	**Housing Color**	**Options** (Add as Suffix)
Full Cutoff **XTOR5A**=41W **XTOR9A**=79W **Refractive Lens** **XTOR5ARL**=41W **XTOR9ARL**=79W	**[Blank]**=Bright White (Standard) 5000K **N**=Neutral Warm White, 3500K	**[Blank]**=Carbon Bronze (Standard) **WT**=Summit White	**347V**=347V [2, 3, 5, 6] **480V**=480V [2, 3, 5, 6, 7] **PC1**=Photocontrol 120V [8] **PC2**=Photocontrol 208-277V [8, 9] **DIM**=0-10V Dimming Driver [2] **PMA**=Pole Mount Arm (C Drilling) with Round Adapter [3, 4] **HA**=50°C High Ambient [6] **MS-L20**=Motion Sensor for ON/OFF Operation [2, 3, 10, 11] **MS/DIM-L20**=Motion Sensor for Dimming Operation [2, 3, 10, 11, 12, 13] **CBP**=Cold Weather Battery Pack [2, 3, 11, 14]
Accessories (Order Separately)			
WG-XTORMX=Crosstour MAXX Wire Guard **PB120V**=Field Installed 120V Photocontrol **PB277V BUTTON PC**=Field Installed 208-277V Photocontrol [9] **VA1040-XX**=Single Tenon Adapter for 3-1/2" O.D. Tenon [15] **VA1041-XX**=2@180° Tenon Adapter for 3-1/2" O.D. Tenon [15] **VA1042-XX**=3@120° Tenon Adapter for 3-1/2" O.D. Tenon [15] **VA1043-XX**=4@90° Tenon Adapter for 3-1/2" O.D. Tenon [15] **VA1044-XX**=2@90° Tenon Adapter for 3-1/2" O.D. Tenon [15] **VA1045-XX**=3@90° Tenon Adapter for 3-1/2" O.D. Tenon [15]			**VA1046-XX**=2@120° Tenon Adapter for 3-1/2" O.D. Tenon [15] **VA1033-XX**=Single Tenon Adapter for 2-3/8" O.D. Tenon [15] **VA1034-XX**=2@180° Tenon Adapter for 2-3/8" O.D. Tenon [15] **VA1035-XX**=3@120° Tenon Adapter for 2-3/8" O.D. Tenon [15] **VA1036-XX**=4@90° Tenon Adapter for 2-3/8" O.D. Tenon [15] **VA1037-XX**=2@90° Tenon Adapter for 2-3/8" O.D. Tenon [15] **VA1038-XX**=3@90° Tenon Adapter for 2-3/8" O.D. Tenon [15] **VA1039-XX**=2@120° Tenon Adapter for 2-3/8" O.D. Tenon [15] **EWP/XTORMX**=Escutcheon Wall Plate, Carbon Bronze **EWP/XTORMX-WT**=Escutcheon Wall Plate, Summit White

NOTES: 1 DesignLights Consortium™ Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. **2** Not available with HA option. **3** Deep back box is standard for 347V, 480V, CBP, PMA, MS-L20 and MS/DIM-L20. **4** Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information. **5** Not available with CBP option. **6** Thru-branch wiring not available with HA option or with 347V. **7** Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems). **8** Not available with MS-L20 and MS/DIM-L20 options. **9** Use PC2 with 347V or 480V option for photocontrol. Factory wired to 208-277V lead. **10** For use in downlight orientation only. Optimal coverage at mounting heights of 9'-20'. **11** 120V or 277V only. **12** Factory set to 50% power reduction after 15-minutes of inactivity. Dimming driver included. **13** Includes integral photo sensor. **14** Operating temperatures -20°C to 25°C. **15** Replace XX with CB for carbon bronze or WT for summit white.

STOCK ORDERING INFORMATION

41W Series	**79W Series**
Full Cutoff	
XTOR5A=41W, 5000K, Carbon Bronze	XTOR9A=79W, 5000K, Carbon Bronze
XTOR5A-PC1=41W, 5000K, 120V PC, Carbon Bronze	XTOR9A-PC1=79W, 5000K, 120V PC, Carbon Bronze
XTOR5A-WT= 41W, 5000K, Summit White	XTOR9A-WT=79W, 5000K, Summit White
XTOR5A-N=41W, 3500K, Carbon Bronze	XTOR9A-PC2=79W, 5000K, 208-277V PC, Carbon Bronze
	XTOR9A-480V=79W, 5000K, 480V, Carbon Bronze
	XTOR9A-PMA=79W, 5000K, Pole Mount Arm, Carbon Bronze
Refractive Lens	
XTOR5ARL=41W, 5000K, Refractive Lens, Carbon Bronze	XTOR9ARL=79W, 5000K, Refractive Lens, Carbon Bronze
XTOR5ARL-PC1=41W, 5000K, Refractive Lens, 120V PC, Carbon Bronze	XTOR9ARL-PC1=79W, 5000K, Refractive Lens, 120V PC, Carbon Bronze
XTOR5ARL-WT=41W, 5000K, Refractive Lens, Summit White	XTOR9ARL-WT=79W, 5000K, Refractive Lens, Summit White
XTOR5ARL-N=41W, 3500K, Refractive Lens, Carbon Bronze	XTOR9ARL-PC2=79W, 5000K, Refractive Lens, 208-277V PC, Carbon Bronze
	XTOR9ARL-480V=79W, 5000K, Refractive Lens, 480V, Carbon Bronze
	XTOR9ARL-PMA=79W, 5000K, Refractive Lens, Pole Mount Arm, Carbon Bronze

5-DAY QUICK SHIP ORDERING INFORMATION

41W Series	**79W Series**
Full Cutoff	
XTOR5A-CBP=41W, 5000K, Carbon Bronze, Cold Weather Battery Pack	XTOR9A-CBP=79W, 5000K, Carbon Bronze, Cold Weather Battery Pack
XTOR5A-480V=41W, 5000K, Carbon Bronze, 480V	XTOR9A-N=79W, 3500K, Carbon Bronze
XTOR5A-PC2=41W, 5000K, Carbon Bronze, 208-277V PC	
Refractive Lens	
XTOR5ARL-PC2=41W, Refractive Lens, 5000K, Carbon Bronze, 208-277V PC	XTOR9ARL-CBP=79W, Refractive Lens, 5000K, Carbon Bronze, Cold Weather Battery Pack
XTOR5ARL-CBP=41W, Refractive Lens, 5000K, Carbon Bronze, Cold Weather Battery Pack	XTOR9ARL-N=79W, Refractive Lens, 3500K, Carbon Bronze
XTOR5ARL-480V=41W, Refractive Lens, 5000K, Carbon Bronze, 480V	

Shaper
shaperlighting.com

DESCRIPTION

673-WP Luminous Wall Sconce features a variety of decorative options such as perforated metal, colored acrylic, trim bars and is ADA compliant.

Catalog #		Type
Project		Z46
Comments	Exterior Wall Sconce	Date
Prepared by		

SPECIFICATION FEATURES

Material
Painted or plated solid aluminum with a 1/8" sanded white extruded acrylic panel. Open bottom and enclosed top.

Finish
Premium TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear.
Standard: White Paint (WH).
Premium: Aluminum Paint (ALP), Black Paint (BK), Bronze Metallic Paint (BM), Dark Platinum Paint (DP), Graphite Metallic Paint (GRM), Grey Paint (GY) or Custom Color (CC).

Optics
Refer to www.shaperlighting.com for complete photometrics.

Ballast
Integral electronic HPF, multi-volt 120/277V (347V Canada - Except 13W)), thermally protected with end-of-life circuitry to accommodate the specified lamp wattage.

Driver
Standard integral class 2 driver 38W max., 0-10V dimming.

Lamp/Socket
12": Two (2) 13W (2GX7) 4-pin low wattage CFL or 26W (G24q-3) 4-pin quad CFL lamps or one (1) 60W frosted T-10 lamp.
16": Two (2) 27W (2G11) 4-pin high lumen CFL lamps or two (2) 60W frosted T-10 lamps.
25": One (1) or two (2) 14W T5 linear bi-pin fluorescent lamps.
37": One (1) or two (2) 21W T5 linear bi-pin fluorescent lamps.
Flourescent socket injection molded plastic. INC socket fired ceramic rated for 660W-250V. Lamps furnished by others.

LED
L3:2000 nominal lumens at max 19W
L4:3000 nominal lumens at max 29W

Long-life LED system coupled with electrical driver to deliver optimal performance. Electronic drivers are available for 120-277 applications. A 0-10V dimming control is available (Standard) on all models.

Installation
Supplied with a universal circular strap for a standard 4" J-box or plaster ring.

Options
Modified Length - Contact factory, Closed Bottom Cover (BC), Two Vertical Trim Bars (2VTB), Two Horizontal Trim Bars (2HTB), Two Vertical & Horizontal Trim Bars (2HTB/2VTB), Two Vertical & Horizontal Trim Bars with Decorative Balls (2HTB/2VTB/DB), Two Horizontal & Vertical Trim Bars with Perf Sides & Solid Ends (2HTB/2VTB/PSSE), Two Vertical & Horizontal Trim Bars with Perf Center (2HTB/2VTB/PC), Two Horizontal & Proud Extended Vertical Trim Bars with Solid Ends (2HTB/2PEVTB/SE), Two Horizontal Trim Bars & One Proud Vertical Trim Bar with Solid Ends (2HTB/1PVTB/SE), Two Horizontal & One Vertical Trim Bars with Perf Ends (2HTB/1VTB/PE), Two Horizontal Fins (2HF), Two Vertical Trim Bars with Perf Sides (2VTB/PS), Two Vertical Trim Bars with Cobalt Blue Center (2VTB/CBC), Two Vertical Trim Bars with Perf Center (2VTB/PC), Three Horizontal & One Vertical Trim Bar with Perf (3HTB/1VTB/P). Solid or closed acrylic endcaps available for LED

Labels
U.L. and C.U.L. listed for wet location. ADA compliant, except with proud trim options.

Modifications
Shaper's skilled craftspeople with their depth of experience offer the designer the flexibility to modify standard exterior wall luminaires for project specific solutions. Contact the factory regarding scale options, unique finishes, mounting, additional materials/colors, or decorative detailing.

673-WP SERIES

Exterior Wall Luminaire
Luminous Wall Sconce

ARRA

Shaper Lighting certifies that its products satisfy the requirements of Section 1605 of the American Recovery and Reinvestment Act (also known as the ARRA Buy American provision).

AMERICAN DISABILITIES ACT (ADA)

Shaper offers a large selection of ADA interior and exterior wall luminaires. ADA requires all fixtures below 68" to have a maximum projection of 4".

QUICK SHIP (QS)

Shaper's Quick Ship program features over thirty-four fixtures with finish options such as Satin Chrome, Natural Aluminum and Satin Brass, and a wide variety of lamp selections. All products ship in five days from receipt of order.

ORDERING INFORMATION

Sample Number: 673-37-WP-T5/1/21-277V-ALP

Series
673 = Luminous Wall Sconce

Size
12"
16"
25"
37"

Mounting Type
WP = Exterior Wall

Lamp
CFL/2/13 [1]
CFL/2/26 [1]
CFL/2/27 [2]
INC/1/60 [1]
INC/2/60 [2]
T5/1/14 [3]
T5/1/21 [4]
T5/2/14 [3]
T5/2/21 [4]

LED Lamp
L3/827 [2,3]
L3/830 [2,3]
L3/835 [2,3]
L3/840 [2,3]
L4/827 [4]
L4/830 [4]
L4/835 [4]
L4/840 [4]

Voltage
120V
277V [5]
347V [5]

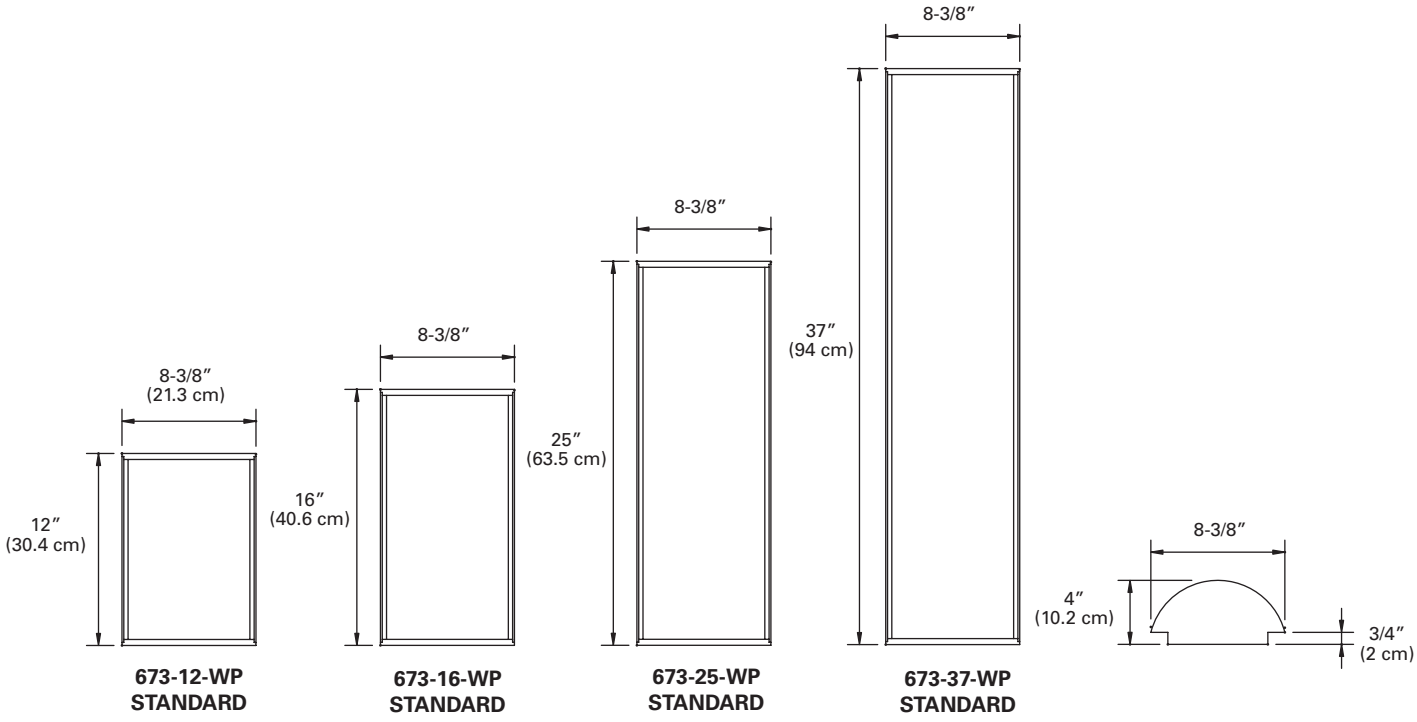
LED Voltage
(120-277V)

Finish [6]
Standard
WH =White
Premium
ALP = Aluminum Paint
BK = Black
BM = Bronze Metallic Paint
CC = Custom Color
DP = Dark Platinum Paint
GM = Gold Metallic Paint
GRM = Graphite Metallic Paint
GY = Grey

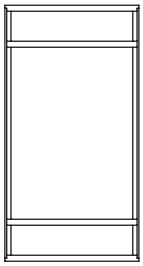
Options
2HF = Two Horizontal Fins
2HTB =Two Horizontal Trim Bars
2HTB/1PVTB/SE =Two Horizontal & One Proud Vertical Trim Bar w/ Solid Ends
2HTB/1VTB/PE =Two Horizontal & One Vertical Trim Bar w/ Perf Ends
2HTB/2VTB = Two Horizontal & Vertical Trim Bars
2HTB/2VTB/DB = Two Horizontal & Vertical Trim Bars w/Decorative Balls
2HTB/2VTB/PC = Two Horizontal & Vertical Trim Bars w/Perf Center
2HTB/2VTB/PSSE = Two Horizontal & Vertical Trim Bars w/Perf Sides & Solid Ends
2HTB/2PEVTB/SE = Two Horizontal & Proud Vertical Extended Trim Bars w/ Solid Ends
2VTB = Two Vertical Trim Bars
2VTB/CBC = Two Vertical Trim Bars w/ Cobalt Blue Center
2VTB/PC = Two Vertical Trim Bars w/Perforated Center
2VTB/PS = Two Vertical Trim Bars w/Perforated Sides
3HTB/1VTB/P = Three Horizontal & One Vertical Trim Bars w/ Perf
BC= Closed Bottom Cover [5]

Notes:
1 Available in 12".
2 Available in 16".
3 Available in 25".
4 Available in 37".
5 Available with CFL only (347V not available in 13W).
6 Premium TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear.

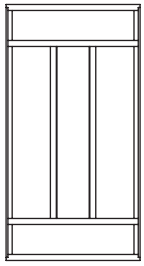
MOUNTING TYPE



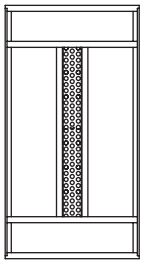
OPTIONS



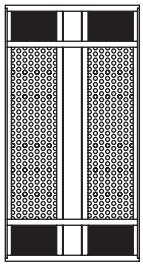
TWO HORIZONTAL TRIM BARS (2HTB)



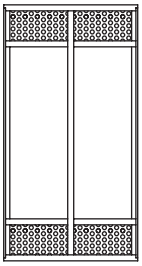
TWO HORIZONTAL & TWO VERTICAL TRIM BARS (2HTB/2VTB)



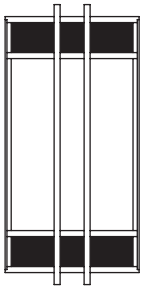
TWO HORIZONTAL & TWO VERTICAL TRIM BARS W/ PERF CENTER (2HTB/2VTB/PC)



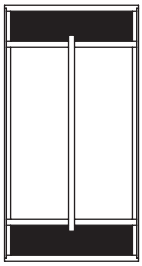
TWO HORIZONTAL & TWO VERTICAL TRIM BARS W/ PERF SIDES & SOLID ENDS (2HTB/2VTB/PSSE)



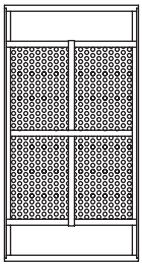
TWO HORIZONTAL & ONE VERTICAL TRIM BARS W/ PERF ENDS (2HTB/1VTB/PE)



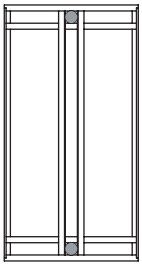
TWO HORIZONTAL & TWO PROUD EXTENDED VERTICAL TRIM BARS W/ SOLID ENDS (2HTB/2PEVTB/SE)



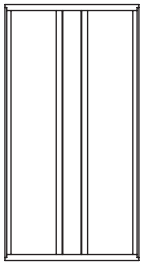
TWO HORIZONTAL & ONE PROUD VERTICAL TRIM BARS W/ SOLID ENDS (2HTB/1PVTB/SE)



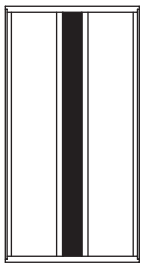
THREE HORIZONTAL & ONE VERTICAL TRIM BARS W/ PERF (3HTB/1VTB/P)



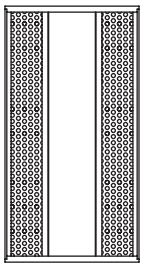
TWO HORIZONTAL & TWO VERTICAL TRIM BARS W/ DECORATIVE BALLS (2HTB/2VTB/DB)



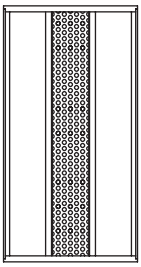
TWO VERTICAL TRIM BARS (2VTB)



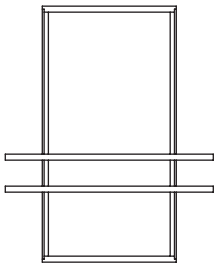
TWO VERTICAL TRIM BARS W/ COBALT BLUE CENTER (2VTB/CBC)



TWO VERTICAL TRIM BARS W/ PERF SIDES (2VTB/PS)



TWO VERTICAL TRIM BARS W/ PERF CENTER (2VTB/PC)



TWO HORIZONTAL FINS (2HF)

CLOSED BOTTOM COVER (BC)

COMPANION PRODUCTS

273

474

605

673

Invue

DESCRIPTION

The Arbor Bollard from Invue brings architectural style to the pedestrian level. The Arbor Bollard can be used along with Arbor post top luminaires to provide a coordinated look sure to enhance any architectural setting. WaveStream™ LED optics present a pixilation free image replacing visible glare, while providing high levels of pavement illumination.

Catalog #		Type
Project		Z50
Comments	Exterior Bollard Light	Date
Prepared by		

SPECIFICATION FEATURES

Construction
Top Housing: Low copper, cast aluminum top maintains strength and precision while providing for: rapid heat dissipation, vandal resistance and superior dayform. Lower Housing: Heavy 0.188" wall seamless extruded aluminum 4" O.D. shaft attaches to base via stainless steel fasteners. BASE: Rugged corrosion resistant extruded aluminum base mounts to foundation with three anchor bolts. Base features a pliable 1/2" thick neoprene leveling pad fitted to the bottom of base allows for sealing against water and dirt ingress regardless of minor deviations in grade of concrete pad.

Optics
Symmetric and asymmetric distributions are available using WaveStream LED optical technology. The optical waveguide is manufactured using precision injection molded acrylic for the ultimate level of glare control and visual comfort. Offered standard in 4000K (+/- 275K) CCT, optional 3000K minimum 80 CRI.

Electrical
LED driver(s) are mounted to electrical tray for easy installation and maintenance for 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. Offered standard with 0-10V dimming driver and Eaton's proprietary circuit module designed to withstand 10kV of transient line surge. Luminaire is suitable for ambient temperature applications from -30°C (-22°F) to 40°C (104°F) and IP66 rated against the ingress of dust and water.

Controls
The Arbor Bollard options are designed to be simple and cost-effective ASHRAE and California Title 24 compliant solutions. An integrated dimming and occupancy sensor is a standalone control option available in on/off (MSP) and bi-level dimming (MSP/DIM) operation. An optional handheld remote (ISHH) allows custom programming to suit all needs.

Mounting
Luminaire is mounted to 3 x 1/2" anchor bolts on a 2-3/8" bolt circle to with stand a 600 pound overturn moment. Order anchor bolts and installation template separately (ABAnchor).

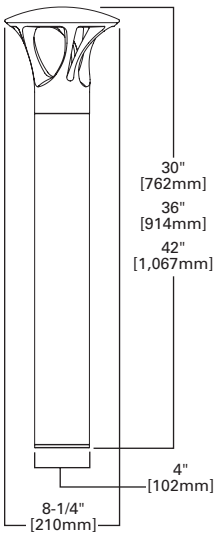
Finish
Eaton utilizes premium ultra-weatherable TGIC based polyester powder coatings that are specifically formulated to withstand extended outdoor exposure. The powders are formulated exclusively for Eaton to serve functionally as well as decorative. Good film appearance combinded with excellent mechanical an exterior exposure qualities display greater than twice as much gloss retention. RAL and custom color matches available. Finish is compliant with ASTM B117 3000hr salt spray standard.

Warranty
Five-year warranty.

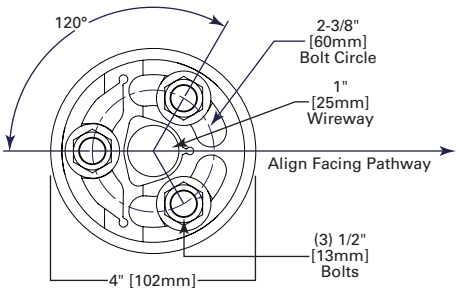
ABB ARBOR BOLLARD

PATHWAY LUMINAIRE

DIMENSIONS



BOLT CIRCLE ORIENTATION



CERTIFICATION DATA
UL/cUL Listed
IP66 Housing
ISO 9001
RoHS

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V 50/60Hz, 347V 60Hz,
480V 60Hz
-30°C Minimum Temperature
40°C Ambient Temperature Rating

Approximate Net Weight:
19.25 lbs. [8.75 kgs.]

Powering Business Worldwide

POWER AND LUMENS

Lumen/Distribution	B1 Symmetric	B2 Symmetric	B1 Asymmetric	B2 Asymmetric
Drive Current				
Power Wattage (Watts)	16W	32W	11W	23W
Input Current (mA) @ 120V	140	270	100	200
Input Current (mA) @ 208V	80	160	60	120
Input Current (mA) @ 240V	70	140	50	100
Input Current (mA) @ 277V	60	120	40	90
Power Wattage (Watts)	19W	37W	13W	27W
Input Current (mA) @ 347V	60	110	40	80
Input Current (mA) @ 480V	180	320	120	240
Optics				
Lumens	717	1,276	472	848
BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G1	B1-U0-G2

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Calculated L70 (Hours)
25°C	>94%	>350,000
40°C	>93%	>250,000
50°C	>90%	>170,000

NOTE: Maintenance data applies to the highest drive current and represents the worst case at the highest wattage.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.97

COLOR TEMPERATURE

Color Temperature (CCT)	CRI (Nominal)	Multiplier (Hours)
4000	70	1.00
3000	80	0.87

ORDERING INFORMATION

Sample Number: ABB-B2-LED-42-D1-A-GM

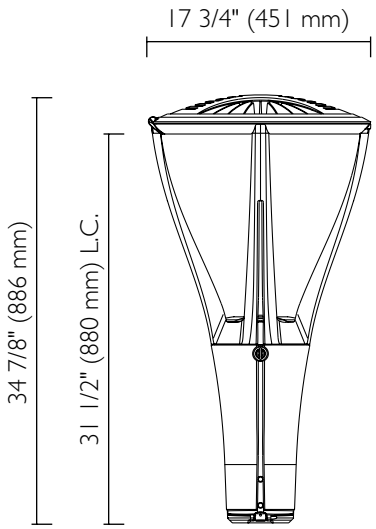
Product Family	Lumen Output [1]	Source	Height	Voltage	Distribution	Color
ABB=Arbor Bollard	**B1**=Mid Lumen Output **B2**=High Lumen Output	**LED**	**30**=30" **36**=36" **42**=42"	**D1**=Dimming Driver (120-277V) [2] **347**=347V [3] **480**=480V [3, 4]	**A**=Asymmetric **S**=Symmetric	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White **CC**=Custom Color [5]

Options (Add as Suffix)	**Accessories** (Order Separately)
8030=80 CRI / 3000K CCT [6] **HA**=High Ambient [7] **MS/DIM-H8**=Motion Sensor for Dimming or Bi-Level Operation (Horizontal Detection) [8] **MS/DIM-2H8**=Twin Motion Sensors for 360° Dimming or Bi-Level Operation (Horizontal Detection) [8] **DIM**=0-10V Dimming Driver Leads Brought Out from Fixture	**ABAnchor**=Anchor Bolt Kit and Template [9] **ISHH**=Wireless Configuration Tool for Integrated Sensor (Occupancy Sensor Settings)

NOTES:
1. Standard 4000K CCT nominal 70 CRI.
2. Dimming driver standard.
3. Requires the use of a step down transformer.
4. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
5. RAL and custom color matching available. Consult your lighting representative at Eaton for more information.
6. Extended lead times apply. Use dedicated IES files when performing layouts.
7. 50°C ambient rating.
8. The ISHH configuration tool is required to adjust parameters including high and low dimming levels, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
9. Contact your customer service representative at Eaton for advance shipping.

UrbanScape
Data Sheet

Z65_Z66 Decorative Pole Light



UrbanScape is approved by:

lighting facts LED Product Partner

ida APPROVED

MPTC

Conform to the UL 1598 and CSA C22.2 No. 250.0-08 standards

Suitable for operation in an ambient temperature up to 40°C / 104°F - UL certified (Runs cool in almost every climate).

The MetroScape meets the ANSI C136.31-2001 table 2, American National Standard for Roadway Luminaire Vibration specifications for Bridge/overpass applications. (Tested for 3G over 100 000 cycles by an independent lab)

EPA:
1.7 sq ft

Weight:
32.2 lbs (14.6 kg)

How to calculate the system lumen per watt ratio (LER):
First, visit our website at www.philips.com/lumec and download the IES file (photometric file) of your selected Philips Lumec product . Then, use a photometric software to get the absolute system lumens value and divide by the system wattage. (Example: 35W32LED4KES : Absolute system lumens / 42W = LER)

LED Lamp Details

LED = Philips Lumileds Luxeon R, CRI = 70, CCT = 4000K (+/- 350K)
System (LED + driver) rated life = 100,000 hrs[1]

LAMP	TYPICAL DELIVERED LUMENS	TYPICAL SYSTEM WATTAGE[2] (W)	TYPICAL CURRENT @ 120V (A)	TYPICAL CURRENT @ 208V (A)	TYPICAL CURRENT @ 240V (A)	TYPICAL CURRENT @ 277V (A)	LED CURRENT (mA)	HID EQUIVALENT[3]	LUMINAIRE EFFICACY RATING (LM/W)	BUG RATING
35W32LED4K-R-LE2	3200	35	0.29	0.17	0.16	0.15	350	70 -100	91.4	B1-U0-G1
35W32LED4K-R-LE3	3200	35	0.29	0.17	0.16	0.15	350	70 -100	91.4	B1-U0-G1
35W32LED4K-R-LE4	3200	35	0.29	0.17	0.16	0.15	350	70 -100	91.4	B1-U0-G1
35W32LED4K-R-LE5	3200	35	0.29	0.17	0.16	0.15	350	70 -100	91.4	B2-U0-G1
55W32LED4K-R-LE2	4500	52	0.40	0.23	0.21	0.19	530	100 - 150	86.5	B1-U0-G1
55W32LED4K-R-LE3	4500	52	0.40	0.23	0.21	0.19	530	100 - 150	86.5	B1-U0-G1
55W32LED4K-R-LE4	4500	52	0.40	0.23	0.21	0.19	530	100 - 150	86.5	B1-U0-G1
55W32LED4K-R-LE5	4500	52	0.40	0.23	0.21	0.19	530	100 - 150	86.5	B2-U0-G1
55W48LED4K-R-LE2	5000	55	0.38	0.22	0.23	0.21	350	100 - 150	90.9	B1-U0-G1
55W48LED4K-R-LE3	5000	55	0.38	0.22	0.23	0.21	350	100 - 150	90.9	B1-U0-G1
55W48LED4K-R-LE4	5000	55	0.38	0.22	0.23	0.21	350	100 - 150	90.9	B1-U0-G1
55W48LED4K-R-LE5	5000	55	0.38	0.22	0.23	0.21	350	100 - 150	90.9	B2-U0-G1
80W48LED4K-R-LE2	7200	79	0.63	0.36	0.34	0.31	530	150-200	91.1	B2-U0-G1
80W48LED4K-R-LE3	7200	79	0.63	0.36	0.34	0.31	530	150-200	91.1	B2-U0-G1
80W48LED4K-R-LE4	7200	79	0.63	0.36	0.34	0.31	530	150-200	91.1	B2-U0-G1
80W48LED4K-R-LE5	7200	79	0.63	0.36	0.34	0.31	530	150-200	91.1	B3-U0-G1
70W64LED4K-R-LE2	6200	71	0.58	0.34	0.32	0.3	350	100 - 150	87.3	B2-U0-G1
70W64LED4K-R-LE3	6200	71	0.58	0.34	0.32	0.3	350	100 - 150	87.3	B2-U0-G1
70W64LED4K-R-LE4	6200	71	0.58	0.34	0.32	0.3	350	100 - 150	87.3	B2-U0-G1
70W64LED4K-R-LE5	6200	71	0.58	0.34	0.32	0.3	350	100 - 150	87.3	B3-U0-G1
110W64LED4K-R-LE2	9300	103	0.8	0.46	0.42	0.38	530	200 - 250	90.3	B2-U0-G2
110W64LED4K-R-LE3	9300	103	0.8	0.46	0.42	0.38	530	200 - 250	90.3	B2-U0-G2
110W64LED4K-R-LE4	9300	103	0.8	0.46	0.42	0.38	530	200 - 250	90.3	B2-U0-G2
110W64LED4K-R-LE5	9300	103	0.8	0.46	0.42	0.38	530	200 - 250	90.3	B4-U0-G2
90W80LED4K-R-LE2	8600	87	0.78	0.43	0.40	0.34	350	150-200	98.9	B2-U0-G2
90W80LED4K-R-LE3	8600	87	0.78	0.43	0.40	0.34	350	150-200	98.9	B2-U0-G2
90W80LED4K-R-LE4	8600	87	0.78	0.43	0.40	0.34	350	150-200	98.9	B2-U0-G2
90W80LED4K-R-LE5	8600	87	0.78	0.43	0.40	0.34	350	150-200	98.9	B4-U0-G2
135W80LED4K-R-LE2	12000	129	1.15	0.61	0.58	0.5	530	250 - 320	93.0	B2-U0-G2
135W80LED4K-R-LE3	12000	129	1.15	0.61	0.58	0.5	530	250 - 320	93.0	B2-U0-G2
135W80LED4K-R-LE4	12000	129	1.15	0.61	0.58	0.5	530	250 - 320	93.0	B2-U0-G2
135W80LED4K-R-LE5	12000	129	1.15	0.61	0.58	0.5	530	250 - 320	93.0	B4-U0-G2

[1] L70 = 100,000 hrs (at ambient temperature = 25°C and forward current = 700 mA)
[2] System wattage includes the lamp and the LED driver.
[3] Equivalence should always be confirmed by a photometric layout.
Note : Due to rapid and continuous advances in LED technology, LED luminaire data is subject to change without notice and at the discretion of Philips.

Optical System

LEDGINE

Composed of high performance acrylic refractors lenses to achieve desired distribution, optimized to get maximum spacing, target lumen and a perfect lighting uniformity. Performance shall be tested per LM63 and LM79 and TM15 (IESNA) certifying its photometric performance.

* Photometry available on Philips Lumec web site www.philips.com/lumec..

LE2: Asymetrical
LE3: Asymetrical
LE4: Asymetrical
LE5: Symmetrical (square)

Voltages

120 / 208 / 240 / 277 / 347[1] / 480[1]

1 Not available with driver options

PHILIPS LUMEC

Luminaire Options

PH8
Photoelectric cell
Complete with a decorative cap
Allows a 90° rotation

RC
Receptacle for photoelectric cell

TN3
Fitter to fit over a 3" (76 mm) O.D. by 4" (102 mm) long tenon

TN3.5
Fitter to fit over a 3 1/2" (89 mm) O.D. by 4" (102 mm) long tenon

Luminaire Accessory

SPC*
Starsense Photo-cell Control

* Luminaire option RC is required with this accessory.

Advanced luminaire Solutions

UrbanScape allows you many options in order to get different intelligent functionalities.

DMG → Driver is compatible with dimmer from 0 to 10 volts.

CDMG → Dynadimmer standard dimming functionalities including pre-programmed scenarios to suit many applications and needs from safety to maximum energy savings.

CDMGP → Dynadimmer custom dimming scenario allowing the user to program up to 5 time periods and multiple dimming levels from 100% to 10% of total wattage.

OVR → Dynadimmer override function offering the possibility to go back to full power at any time via an electrical signal of 120VAC to 277VAC from a motion sensor, a switch, a relay or else.

CLO → Pre-set driver to manage the lumen depreciation by adjusting the power given to the LEDs offering the same lighting intensity during the entire lifespan of the lamp.

AST → Pre-set driver for progressive start-up of the lamp to optimize energy management and enhance user visual comfort at start-up.

OTL → Pre-set driver to signal end of life of the lamp for better fixture management.

DALI → Pre-set driver compatible with the DALI control system.

Advanced System Solutions

Different options are available according to your needs. Please contact us for more information.

Advanced City Solutions

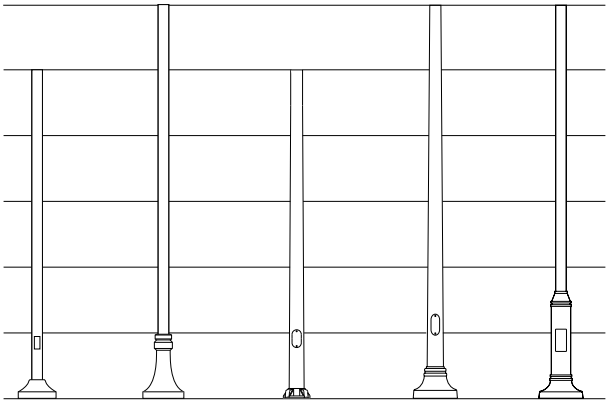
AMPLIGHT → Amplight is the intelligent monitoring and control, automated management system that delivers up to 35% streetlight energy savings and makes it easy to monitor and manage the entire system, in real time. Please contact us for more information.

Other options are also available according to your needs. Please contact us for more information.

PHILIPS
LUMEC

Poles

Consult the Philips Lumec Pole Guide for details and the complete line of poles.



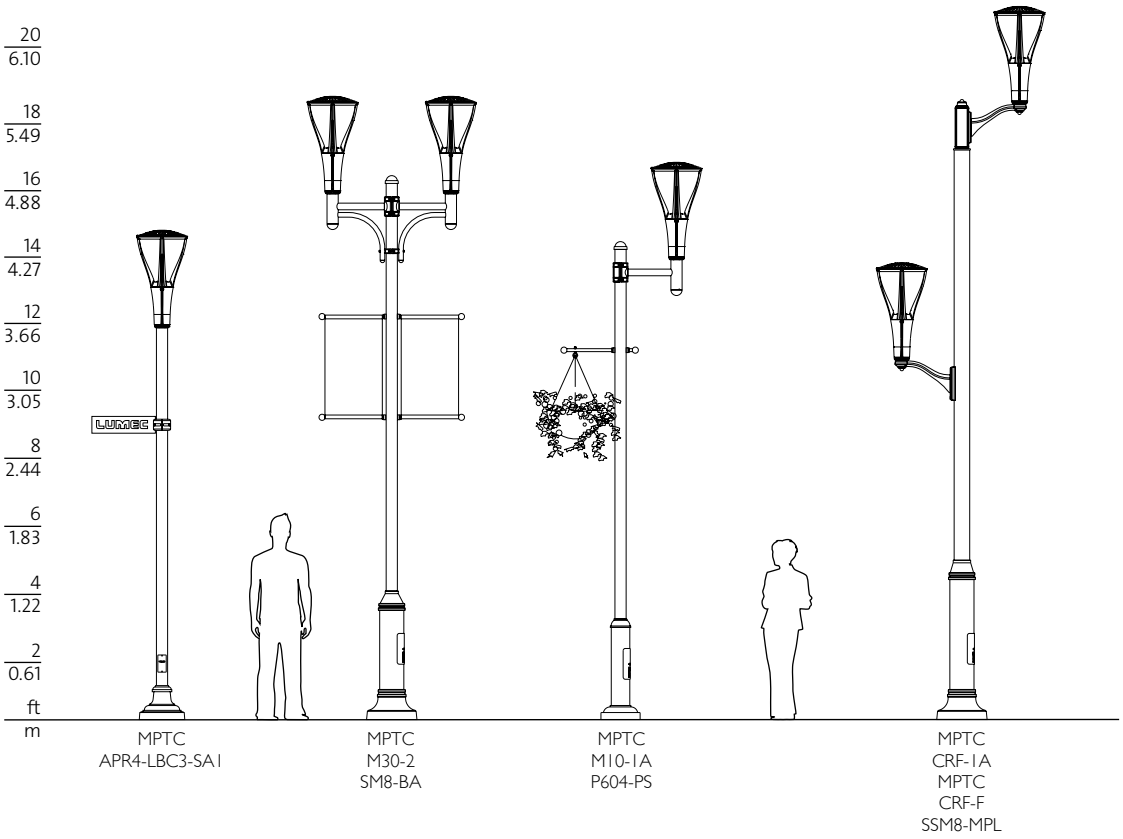
Finish

GR	Gray Sandtex
WHTX	Textured White
BKTX	Textured Black
GY3TX	Textured Medium Grey
BRTX	Textured Bronze
BG2TX	Textured Sandstone
BE2TX	Textured Midnight Blue
BE6TX	Textured Ocean Blue
BE8TX	Textured Royal Blue
GNTX	Textured Green
GN4TX	Textured Blue Green
GN6TX	Textured Forest Green
GN8TX	Textured Dark Forest Green
RD2TX	Textured Burgundy
RD4TX	Textured Scarlet
TS	Hammertone Silver
TG	Hammertone Gold
NP	Natural Aluminum

Ordering Example

Luminaire	Lamp	Optical System	Voltage	Driver Options	Luminaire Options	Pole	Finish
MPTC	42W32LED4KES	LE3	120	DMG	PH8	APR4-LBC4-16	GR

Assembly examples



PHILIPS
LUMEC

Philips Lighting Company
200 Franklin Square Drive
Somerset, NJ 08873
Phone: 855-486-2216

Philips Lighting Company
281 Hillmount Road
Markham ON, Canada L6C 2S3
Phone: 800-668-9008

DESCRIPTION

SNLED Lensed is a narrow LED lensed striplight series. This high quality luminaire is dedicated to the latest solid state lighting and electronic driver technology for optimal performance and energy efficiency. This Lensed product is available with three different lens types.

The small size of the SNLED makes it an ideal choice for size restricted architectural applications. The SNLED Series can be the illumination solution in commercial, industrial, retail and residential applications. Fixtures can be used in storage/utility areas, coves, display cases, shops, task and general area lighting.

Catalog #		Type
Project		Z96
Comments	Porte Cochere Wing Lighting	Date
Prepared by		

SNLED LENSED LED

Lensed LED Striplight

powered by fifthlight technology

SPECIFICATION FEATURES

Construction
Channel is die formed cold rolled steel with numerous KOs for ease of installation. Groove for Tong Hanger. End plate quickly converts to snap-in channel connector for continuous row alignment. Channel/wireway cover secured with sheet metal screws.

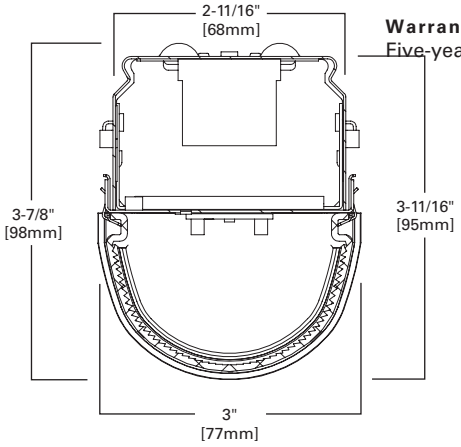
Controls
Equipped standard with a 0-10V continuous dimming driver that works with any standard 0-10V control/dimmer. Dimming range is 10% to 100%; varies by control device. Combine with energy-saving products like occupancy sensors, day lighting controls, and lighting relay panels to maximize energy savings. For motion control, reference options for both end and middle of the row applications.

Electrical
Long-Life LED system coupled with electronic (120-277V) driver to deliver optimal lighting performance. LED's available in 3000K, 3500K, 4000K, or 5000K with a CRI ≥ 85. Other color temperatures are available. Projected life is 60,000 hours at 70% lumen output. This driver is 0-10V dimming standard.

Emergency Battery Pack Option
Optional 120v-277v integral emergency battery pack is available in 7-watts or 14-watts to meet critical life-safety lighting requirements. The 90-minute batteries provide constant power to the LED system, ensuring code-compliance. A test switch/indicator button can be tested safely from the ground using a laser pointer, while the patented EZ Key prevents accidental discharge of the battery during construction. See ordering information for details.

Finish
Multistage iron phosphate pretreatment ensures maximum bonding and rust inhibitor. High reflective paint after fabrication, baked white enamel finish is standard.

Channel/Wireway Cover
Die formed heavy gauge steel. Tight fit for ease of maintenance.



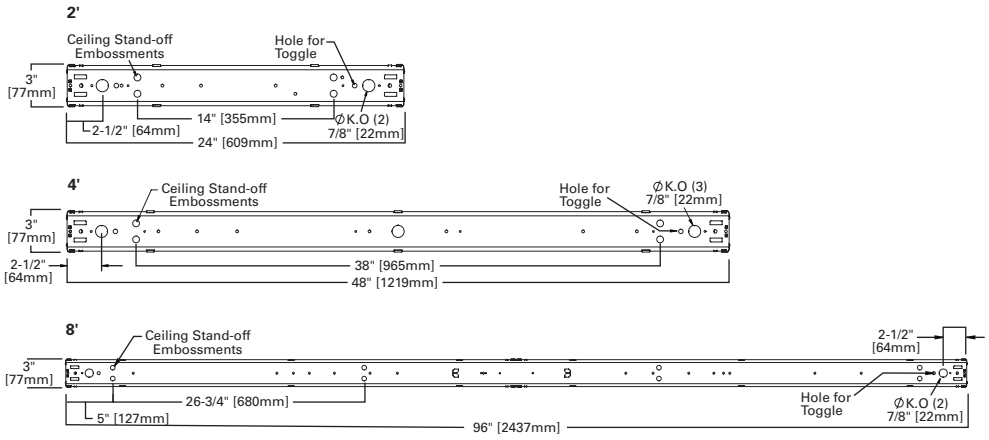
Shielding
Offers three different lensed optical distributions. (LC) Clear with linear optical ribs. (LN) Semi-frost for narrow distribution. (LW) Full frost for wide distribution.

Installation
Fixture may be surface, pendant, or stem mounted. See accessories below in ordering information.

Compliance
Components are UL recognized. Indoor luminaires are cULus listed for 40° C ambient environments, RoHS compliant, damp location listed, and comply with IESNA LM-79. LEDs comply with LM-80 standards. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.

Warranty
Five-year warranty.

MOUNTING DATA



LINEAR DISCONNECT
Safe and convenient means of disconnecting power

Powering Business Worldwide

WATTAGE

SNLED Type	Stock* / MTO	Lumen Type	Length	Catalog Logic	Nominal Lumens	Wattage	lm/W
Clear Lens (LC)	MTO	Standard	2 ft.	2SNLED-LD4-18SL-LC-UNV-L8XX-CD1-U	1907	17.13	105
Clear Lens (LC)	MTO	Standard	2 ft.	2SNLED-LD4-22SL-LC-UNV-L8XX-CD1-U	2325	21.7	101
Clear Lens (LC)	MTO	Standard	2 ft.	2SNLED-LD4-26SL-LC-UNV-L8XX-CD1-U	2712	23.18	112
Clear Lens (LC)	MTO	Standard	4 ft.	4SNLED-LD4-18SL-LC-UNV-L8XX-CD1-U	2038	16.21	111
Clear Lens (LC)	MTO	Standard	4 ft.	4SNLED-LD4-22SL-LC-UNV-L8XX-CD1-U	2301	18.37	120
Clear Lens (LC)	Stock	Standard	4 ft.	4SNLED-LD4-26SL-LC-UNV-L8XX-CD1-U	2688	21.68	120
Clear Lens (LC)	Stock	Standard	4 ft.	4SNLED-LD4-30SL-LC-UNV-L8XX-CD1-U	3061	25.07	120
Clear Lens (LC)	MTO	Standard	4 ft.	4SNLED-LD4-34SL-LC-UNV-L8XX-CD1-U	3431	28.43	120
Clear Lens (LC)	MTO	Standard	4 ft.	4SNLED-LD4-37SL-LC-UNV-L8XX-CD1-U	3822	32.32	114
Clear Lens (LC)	MTO	Standard	4 ft.	4SNLED-LD4-41SL-LC-UNV-L8XX-CD1-U	4233	36.64	112
Clear Lens (LC)	Stock	Standard	4 ft.	4SNLED-LD4-46SL-LC-UNV-L8XX-CD1-U	4615	41.03	112
Clear Lens (LC)	MTO	Standard	4 ft.	4SNLED-LD4-49SL-LC-UNV-L8XX-CD1-U	4994	45.66	107
Clear Lens (LC)	MTO	Standard	4 ft.	4SNLED-LD4-52SL-LC-UNV-L8XX-CD1-U	5357	50.15	104
Clear Lens (LC)	MTO	Standard	4 ft.	4SNLED-LD4-56SL-LC-UNV-L8XX-CD1-U	5714	56.3	99
Clear Lens (LC)	MTO	High	4 ft.	4SNLED-LD4-60HL-LC-UNV-L8XX-CD1-U	6115	50.71	118
Clear Lens (LC)	MTO	Standard	8 ft.	8TSNLED-LD4-60SL-LC-UNV-L8XX-CD1-U	6122	50.14	120
Clear Lens (LC)	MTO	Standard	8 ft.	8TSNLED-LD4-68SL-LC-UNV-L8XX-CD1-U	6863	56.86	120
Clear Lens (LC)	Stock	Standard	8 ft.	8TSNLED-LD4-75SL-LC-UNV-L8XX-CD1-U	7643	64.64	116
Clear Lens (LC)	Stock	Standard	8 ft.	8TSNLED-LD4-83SL-LC-UNV-L8XX-CD1-U	8466	73.28	113
Clear Lens (LC)	MTO	Standard	8 ft.	8TSNLED-LD4-90SL-LC-UNV-L8XX-CD2-U	9230	82.06	110
Clear Lens (LC)	MTO	Standard	8 ft.	8TSNLED-LD4-98SL-LC-UNV-L8XX-CD2-U	9988	91.32	107
Clear Lens (LC)	MTO	Standard	8 ft.	8TSNLED-LD4-105SL-LC-UNV-L8XX-CD2-U	10714	100.3	105

SNLED Type	Stock* / MTO	Lumen Type	Length	Catalog Logic	Nominal Lumens	Wattage	lm/W
Semi-Frost Lens (LN)	MTO	Standard	2 ft.	2SNLED-LD4-18SL-LN-UNV-L8XX-CD1-U	1901	17	105
Semi-Frost Lens (LN)	MTO	Standard	2 ft.	2SNLED-LD4-22SL-LN-UNV-L8XX-CD1-U	2318	22	101
Semi-Frost Lens (LN)	MTO	Standard	2 ft.	2SNLED-LD4-26SL-LN-UNV-L8XX-CD1-U	2704	23	116
Semi-Frost Lens (LN)	MTO	Standard	4 ft.	4SNLED-LD4-18SL-LN-UNV-L8XX-CD1-U	2032	16	111
Semi-Frost Lens (LN)	MTO	Standard	4 ft.	4SNLED-LD4-22SL-LN-UNV-L8XX-CD1-U	2294	18	120
Semi-Frost Lens (LN)	Stock	Standard	4 ft.	4SNLED-LD4-26SL-LN-UNV-L8XX-CD1-U	2680	22	120
Semi-Frost Lens (LN)	Stock	Standard	4 ft.	4SNLED-LD4-30SL-LN-UNV-L8XX-CD1-U	3052	25	120
Semi-Frost Lens (LN)	MTO	Standard	4 ft.	4SNLED-LD4-34SL-LN-UNV-L8XX-CD1-U	3421	28	120
Semi-Frost Lens (LN)	MTO	Standard	4 ft.	4SNLED-LD4-37SL-LN-UNV-L8XX-CD1-U	3810	32	114
Semi-Frost Lens (LN)	MTO	Standard	4 ft.	4SNLED-LD4-41SL-LN-UNV-L8XX-CD1-U	4220	37	112
Semi-Frost Lens (LN)	Stock	Standard	4 ft.	4SNLED-LD4-46SL-LN-UNV-L8XX-CD1-U	4601	41	112
Semi-Frost Lens (LN)	MTO	Standard	4 ft.	4SNLED-LD4-49SL-LN-UNV-L8XX-CD1-U	4979	46	107
Semi-Frost Lens (LN)	MTO	Standard	4 ft.	4SNLED-LD4-53SL-LN-UNV-L8XX-CD1-U	5341	50	106
Semi-Frost Lens (LN)	MTO	Standard	4 ft.	4SNLED-LD4-56SL-LN-UNV-L8XX-CD1-U	5697	56	99
Semi-Frost Lens (LN)	MTO	High	4 ft.	4SNLED-LD4-60HL-LN-UNV-L8XX-CD1-U	6096	51	118
Semi-Frost Lens (LN)	MTO	Standard	8 ft.	8TSNLED-LD4-60SL-LN-UNV-L8XX-CD1-U	6103	50	120
Semi-Frost Lens (LN)	MTO	Standard	8 ft.	8TSNLED-LD4-68SL-LN-UNV-L8XX-CD1-U	6842	57	120
Semi-Frost Lens (LN)	Stock	Standard	8 ft.	8TSNLED-LD4-75SL-LN-UNV-L8XX-CD1-U	7620	65	116
Semi-Frost Lens (LN)	Stock	Standard	8 ft.	8TSNLED-LD4-83SL-LN-UNV-L8XX-CD1-U	8441	73	113
Semi-Frost Lens (LN)	MTO	Standard	8 ft.	8TSNLED-LD4-91SL-LN-UNV-L8XX-CD2-U	9202	82	111
Semi-Frost Lens (LN)	MTO	Standard	8 ft.	8TSNLED-LD4-98SL-LN-UNV-L8XX-CD2-U	9958	91	107
Semi-Frost Lens (LN)	MTO	Standard	8 ft.	8TSNLED-LD4-106SL-LN-UNV-L8XX-CD2-U	10681	100	106

WATTAGE

SNLED Type	Stock* / MTO	Lumen Type	Length	Catalog Logic	Nominal Lumens	Wattage	lm/W
Full Frost Lens (LW)	MTO	Standard	2 ft.	2SNLED-LD4-16SL-LW-UNV-L8XX-CD1-U	1702	17.13	99
Full Frost Lens (LW)	MTO	Standard	2 ft.	2SNLED-LD4-20SL-LW-UNV-L8XX-CD1-U	2075	21.7	92
Full Frost Lens (LW)	MTO	Standard	2 ft.	2SNLED-LD4-23SL-LW-UNV-L8XX-CD1-U	2421	23.18	104
Full Frost Lens (LW)	MTO	Standard	4 ft.	4SNLED-LD4-16SL-LW-UNV-L8XX-CD1-U	1819	16.21	111
Full Frost Lens (LW)	MTO	Standard	4 ft.	4SNLED-LD4-20SL-LW-UNV-L8XX-CD1-U	2054	18.37	109
Full Frost Lens (LW)	Stock	Standard	4 ft.	4SNLED-LD4-23SL-LW-UNV-L8XX-CD1-U	2399	21.68	111
Full Frost Lens (LW)	Stock	Standard	4 ft.	4SNLED-LD4-27SL-LW-UNV-L8XX-CD1-U	2732	25.07	108
Full Frost Lens (LW)	MTO	Standard	4 ft.	4SNLED-LD4-30SL-LW-UNV-L8XX-CD1-U	3062	28.43	106
Full Frost Lens (LW)	MTO	Standard	4 ft.	4SNLED-LD4-33SL-LW-UNV-L8XX-CD1-U	3411	32.32	105
Full Frost Lens (LW)	MTO	Standard	4 ft.	4SNLED-LD4-37SL-LW-UNV-L8XX-CD1-U	3778	36.64	101
Full Frost Lens (LW)	Stock	Standard	4 ft.	4SNLED-LD4-41SL-LW-UNV-L8XX-CD1-U	4119	41.03	100
Full Frost Lens (LW)	MTO	Standard	4 ft.	4SNLED-LD4-44SL-LW-UNV-L8XX-CD1-U	4457	45.66	96
Full Frost Lens (LW)	MTO	Standard	4 ft.	4SNLED-LD4-47SL-LW-UNV-L8XX-CD1-U	4781	50.15	94
Full Frost Lens (LW)	MTO	Standard	4 ft.	4SNLED-LD4-50SL-LW-UNV-L8XX-CD1-U	5100	56.3	89
Full Frost Lens (LW)	MTO	High	4 ft.	4SNLED-LD4-54HL-LW-UNV-L8XX-CD1-U	5458	50.71	106
Full Frost Lens (LW)	MTO	Standard	8 ft.	8TSNLED-LD4-54SL-LW-UNV-L8XX-CD1-U	5464	50.14	108
Full Frost Lens (LW)	MTO	Standard	8 ft.	8TSNLED-LD4-61SL-LW-UNV-L8XX-CD1-U	6125	56.86	107
Full Frost Lens (LW)	Stock	Standard	8 ft.	8TSNLED-LD4-67SL-LW-UNV-L8XX-CD1-U	6822	64.64	104
Full Frost Lens (LW)	Stock	Standard	8 ft.	8TSNLED-LD4-74SL-LW-UNV-L8XX-CD1-U	7556	73.28	101
Full Frost Lens (LW)	MTO	Standard	8 ft.	8TSNLED-LD4-81SL-LW-UNV-L8XX-CD2-U	8238	82.06	99
Full Frost Lens (LW)	MTO	Standard	8 ft.	8TSNLED-LD4-88SL-LW-UNV-L8XX-CD2-U	8915	91.32	96
Full Frost Lens (LW)	MTO	Standard	8 ft.	8TSNLED-LD4-95SL-LW-UNV-L8XX-CD2-U	9562	100.3	95

* Stocked in either 3500K or 4000K

PHOTOMETRICS

See website for IES/photometric files

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (12,000 hours)	Theoretical L70 (Hours)
25°C	92.55%	303,000

Max Ambient temp in compliance with CSA: 40°C

ORDERING INFORMATION

SAMPLE NUMBER: 4SNLED-LD4-46SL-LN-UNV-L835-CD1-U

2=2' Length
4=4' Length
8T=8' Length

Series
SNLED=Commercial LED Striplight [10]

Lamp Type
LD4=LED 4.0

LED Lumens Output [2]

Stocked Lumen Packages - LC [9]
26SL=2600 [8]
30SL=3000
46SL=4600
75SL=7500
83SL=8300

MTO Lumen Packages - LC
18SL=1800 [8]
22SL=2200 [8]
34SL=3400
37SL=3700
41SL=4100
49SL=4900
52SL=5200
56SL=5600
60SL=6000
60HL=6000 [1]
68SL=6800
90SL=9000 [3]
98SL=9800 [3]
105SL=10,500 [3]
130HL=13,000 [3], [14]

Stocked Lumen Packages - LN [9]
26SL=2600 [8]
30SL=3000
32HL=3200
46SL=4600
75SL=7500
83SL=8300

MTO Lumen Packages - LN
18SL=1800 [8]
22SL=2200 [8]
34SL=3400
37SL=3700
41SL=4100
49SL=4900
53SL=5300
56SL=5600
60SL=6000
60HL=6000 [1]
68SL=6800
91SL=9100 [3]
98SL=9800 [3]
106SL=10,600 [3]

Stocked Lumen Packages - LW [9]
23SL=2300 [8]
27SL=2700
41SL=4100
67SL=6700
74SL=7400

MTO Lumen Packages - LW
16SL=1600 [8]
20SL=2000 [8]
30SL=3000
33SL=3300
37SL=3700
44SL=4400
47SL=4700
50SL=5000
54SL=5400
54HL=5400 [1]
61SL=6100
81SL=8100 [3]
88SL=8800 [3]
95SL=9500 [3]

Optic
LC=Clear Lens
LN=Semi-Frost Lens - Narrow
LW=Full Frost Lens - Wide

Voltage
UNV=Universal Voltage 120-277
347=347V
480=480V [4]

Options

Emergency
EL7W=7-watt, 120V-277V emergency battery pack installed [7], [4]
EL14W=14-watt 120V-277V emergency battery pack installed [7], [4]
GTD2=Bodine Generator Transfer Device [15]
ETS2=IOTA Emergency Transfer Switch [15]

Wiring
PI/CPI=Plug-in Option

Motion Sensors
LB-ERMS360=360° Low Bay Motion Sensor - End of Row
LB-MRMS360=360° Low Bay Motion Sensor - Middle of Row
HB-ERMS360=360° High Bay Motion Sensor - End of Row [5]
HB-MRMS360=360° High Bay Motion Sensor - Middle of Row [5]

CCT
L830=3000K
L835=3500K
L840=4000K
L850=5000K

Driver Type
CD=0-10V Dimming Driver (10% - 100% Dimming)
HCD=0-10V Dimming Driver (1% - 100% Dimming) [13]
SD=Step-dim (Bi Level) [4, 11]
5LTD=Fifth Light (DALI) Driver [4, 6, 11]

Number of Drivers
1=1 Driver
2=2 Drivers

Packaging
U=Unit Pack

ACCESSORIES

(Order Separately)
AYC-Chain/Set=36" Chain Hanger (Use 1 set per fixture)
SCF=Fixed Stem Set (Specify Length)
SCS=Swivel Stem Set (Specify Length)
SCA=Adjustable 48" Stem Set
EYE CHAIN SET/3FT=Eye Bolt Chain (Use 1 set per fixture)
WG/SNF-2FT=2' Wire Guard
WG/SNF-4FT=4' Wire Guard
A1B/Spacer-U=Spacer 1-1/2" to 2-1/2" from ceiling (Use 2 per fixture)
TOGGLE=Single Toggle No. 2 (Specify Length)
Y-TOGGLE=Y Toggle No. 2 (Specify Length)

NOTES: [1] 4 ft. only. [2] Nominal lumen values. [3] Two drivers required. [4] 4 ft. and 8 ft. only. [5] Motion Sensor offers dimmability. [6] For a complete listing of Fifth Light products, visit www.eaton.com/lightingsystems [7] With integral test switch/indicator/laser test. For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 7=700 lumens). IES-format photometry for luminaire under emergency operation available. [8] 2 ft. and 4 ft. only. [9] Stocked by mid April 2015. [10] DesignLights Consortium™ Qualified and classified for DLC Standard (all lumen packages), refer to www.designlights.org for details. [11] 3700 lumen and above. [12] Step dimming not available. [13] HCD driver option not available with 6100, 6700, 7400, 7500 and 8300 lumen packages. [14] Not currently listed on DLC QPL. [15] Used to transfer fixture to secondary power source for life-safety operation. When used with a dimming fixture, two devices are required to ensure control is disabled while operating under emergency power.

Specifications & dimensions subject to change without notice. Consult your Eaton Representative for availability and ordering information.

SHIPPING DATA

Length.	Wt.
2 ft.	4.3 lbs.
4 ft.	8.2 lbs.
8 ft.	15.1 lbs.

Powering Business Worldwide

Eaton
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting

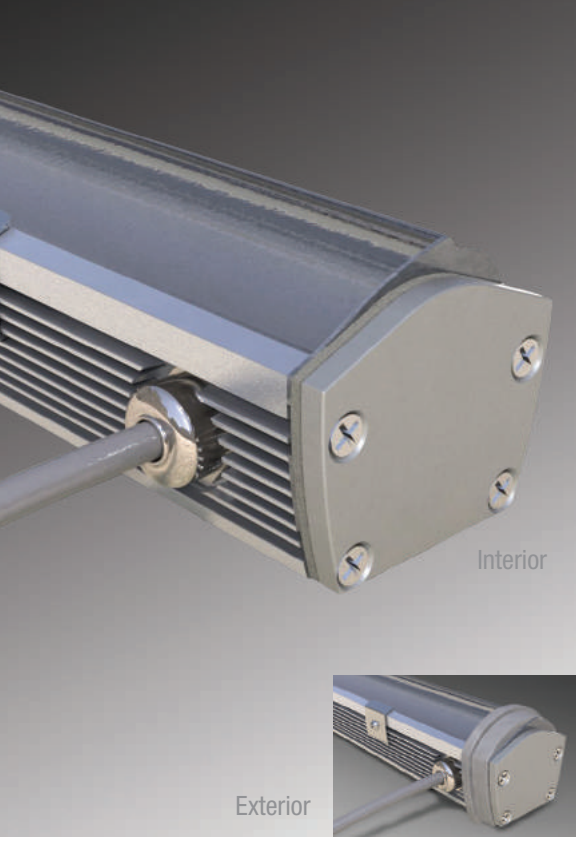
IP 65 LM 79 LM 80 cULus

line™ 2.0

ASYMMETRIC

INTERIOR/EXTERIOR APPLICATIONS

Z94 - Roof Ledge Accent Lighting



5-year warranty

Application

io Lighting's **line series 2.0** is a low voltage linear floodlight luminaire that utilizes high brightness LEDs. **series 2.0** may be specified for interior or exterior applications and may be ordered in nominal lengths of 18", 36", 54" and 72". The precise asymmetric beam spread is excellent for wall washing, sign lighting or pathway applications. **series 2.0**'s patented optical assembly is designed to practically eliminate stray light, making it perfect for applications where light pollution and/or light trespass are important design considerations.

Projected average rated life is 50,000 hours at 70% of lamp lumen output. Ambient temperature surrounding the fixture shall not exceed 122˚F *(50˚C)*.

Light Output

Asymmetric series 2.0 is available with four lumen outputs for white light only. Refer to light output tables for footcandle values at various distances. All values below represent the initial raw lumens of the LED. IES format photometry of Lighting Facts labels represent actual light output measured in lumens and candle power. Light Output losses include optical, thermal and power supply inefficiencies. IES LM-79 format files may be obtained from the factory or downloaded from **www.iolighting.com**. All products have a CRI greater than 80. Results are typical measurements.

>> *2-step MacAdam Binning.*

	Standard Output	Mid Output	Very High Output	V2HO
INITIAL LUMENS				
2700K White:	**252 lms/ft**	**420 lms/ft**	**504 lms/ft**	**785 lms/ft**
3000K White:	**264 lms/ft**	**440 lms/ft**	**528 lms/ft**	**823 lms/ft**
3500K White:	**271 lms/ft**	**452 lms/ft**	**542 lms/ft**	**845 lms/ft**
4000K White:	**276 lms/ft**	**460 lms/ft**	**552 lms/ft**	**860 lms/ft**
POWER CONSUMPTION*				
	3.52 w/ft	**5.28 w/ft**	**7.39 w/ft**	**10.52 w/ft**

Non-standard color temperatures available as a custom offering for a modest additional cost and lead-time.

** Power Consumption dos not include power supply losses.*

Construction

Heavy-duty aluminum housing provides required thermal management. Precision optics are composed of a customized acrylic material offering excellent light transmission and UV stability. High strength adhesive bonds the housing and patented optical assembly. Exterior rated fixtures are sealed for life, while interior rated fixtures are designed with a quick disconnect to enable the printed circuit board to be changed in the field.

Mounting Options

series 2.0 may be surface mounted, side surface mounted or surface mounted with field adjustability and lockable aiming.

Electrical

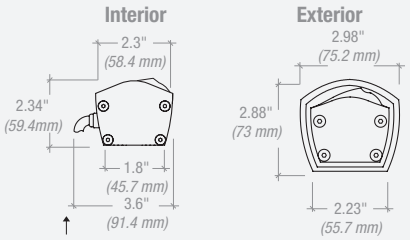
4'-0", 14 AWG UV rated electrical feed is side mounted to enable continuous row mounting. For detailed information regarding remote distance limitations, power supply options, and dimming options consult the **io** website **(www.iolighting.com)** or an **io** representative.

DRIVER REMOTE DISTANCE
46'-0" (14.0m) w/14AWG
71'-0" (21.6m) w/12AWG
120'-0" (36.6m) w/10AWG

Finish

Anodized aluminum finish is standard. Custom finishes may be available upon request.

Dimensions

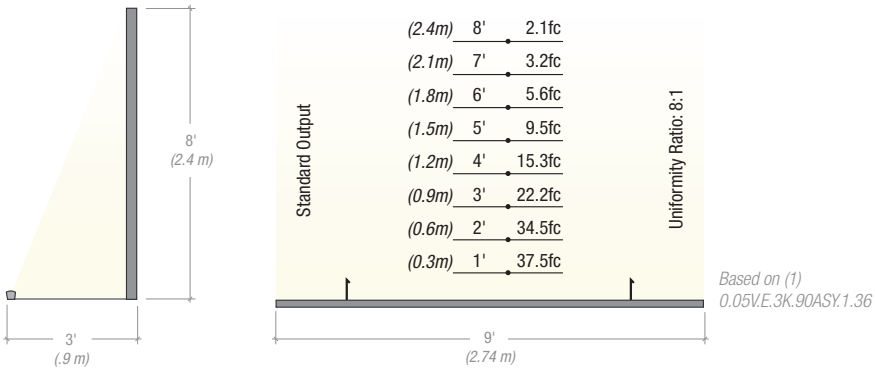


Dimension includes electrical feed and wire bending radius.

Label references 36" **line 2.0** asymmetric fixture in V2HO 3000K. Lighting Facts for additional beam spreads and light output levels may be obtained from **io** Lighting.

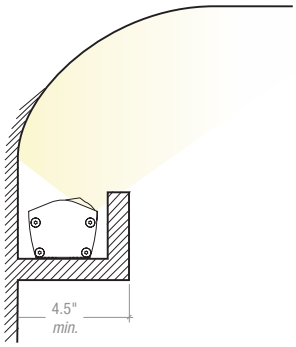
Applications / Light Output

SIGN LIGHTING / BUILDING FLOOD LIGHTING (3000K WHITE)



Based on (1) 0.05V.E.3K.90ASY.1.36

EXTERIOR COVE DETAILS (i.e., canopies)



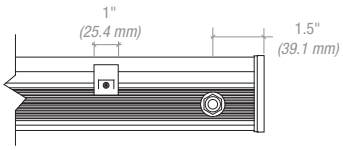
LIGHT OUTPUT CONVERSION TABLE

	Standard Output	High Output	Very High Output	V2HO
2700K White	**0.44**[1]	**0.72**[1]	**0.95**[1]	**1.40**[1]
3000K White	**0.47**[1]	**0.75**[1]	**1.00**[1]	**1.47**[1]
3500K White	**0.48**[1]	**0.77**[1]	**1.03**[1]	**1.51**[1]
4000K White	**0.47**[1]	**0.75**[1]	**1.00**[1]	**1.47**[1]

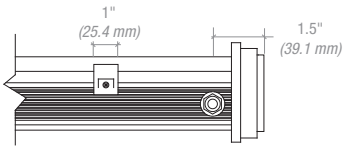
*Visit **www.iolighting.com** or contact an **io** representative for IES format photometrics.*

line series 2.0 is UL Listed for wet locations. It is not rated for submersible applications. **line 2.0** should not be mounted in conditions where there is any standing water whatsoever.

End Cap Detail



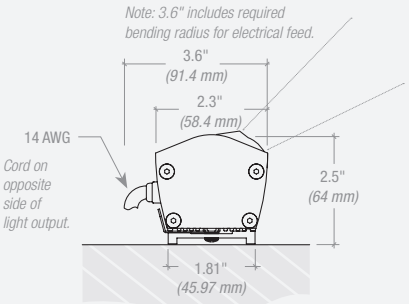
INTERIOR — *Lens Clips 30" O.C.*



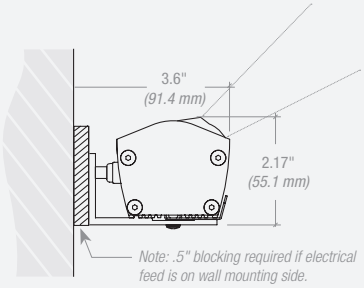
EXTERIOR — *Lens Clips 15" O.C.*

Note: Electrical feed is located on opposing side of lens.

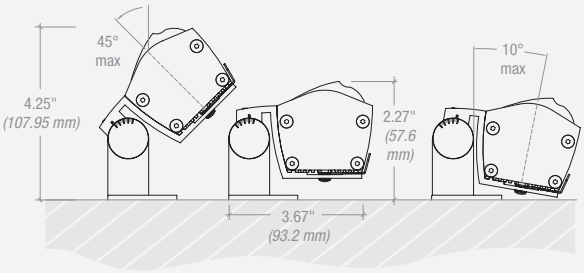
Mounting Options



100 Surface (**io** part #: LA.BK.SURFMT)



101 Side surface (**io** part #: LA.BK.WALLMT)



102 Field adjustable with lockable aiming (**io** part #: LA.BK.ADJMT)

Order Code

0	.		.		.		.	90ASYM	.		.		.		.		.	
io		1		2		3		4		5		6		7		8		9

1. LIGHT OUTPUT

04	2.0 SO
05	2.0 HO
05V	2.0 VHO
05V2	2.0 V2HO

2. LOCATION

I	Interior
E	Exterior

3. COLOR

27K	White 2700K[1]
3K	White 3000K[1]
35K	White 3500K[1]
4K	White 4000K[1]
CC	Custom Color[2]

4. DISTRIBUTION

90ASYM 90˚ASYM

5. MOUNTING

100	Surface
101	Side surface
102	Field adjustable

6. FINISH

1	Anodized aluminum
2	Custom color

7. LENGTH

	ACTUAL (in/mm)
18	18" *(17.71"/449.83mm)*
36	36" *(34.71"/881.63mm)*
54	54" *(51.71"/1313.43mm)*
72	72" *(68.71"/1745.23mm)*

8. VOLTAGE / DIMMING

SIDE FEED STANDARD

1	120v
2	277v
3	120v w/dim
4	277v w/dim
5	Other (International voltage)

9. SPECIFY DRIVER / DIMMING

*Note: If not specified otherwise, **io** will supply 100 watt drivers. Download Power Supply specification sheet from **www.iolighting.com**.*

Footnotes

1. White light variance between LEDs is equal to or better than 3-step MacAdam Binning.
2. Non-standard color temperature and CRI are available. Consult factory for availability.

line 2.0 applications
youtube.com/iolighting

chasen b. garrett
ARCHITECTS, PLLC

10/5/2016

Architect's Statement of Design – Towneplace Suites – Chesterfield Blue Valley

General Requirements for Site Design:

Site Relationship
The new hotel development will be addressed to 18500 Blue Valley Avenue. The site has vacant land to the south, and the site's northern boundary is Blue Valley Avenue. Brasher Street borders the site to the east and Premium Way is to the west. The only existing adjacent structure is Burlington Coat Factory across Blue Valley Avenue to the north. As this building will have somewhat prominent views from each of its four elevations. For this reason, all four elevations have been considered as primary and have received traeatment addressing them as such. However, due to the need to direct hotel guests to the main entry and lobby, the southern view and elevation has received special attention to draw guests to that main entry.

Circulation System and Access
The site entries have been coordinated well with city staff to have two site entries. One is to be on Premium Way to the west. The other is to be on Brasher Street to the east. These two entries will exist on the shared property line with the adjacent property and will therefore be used to serve both sites. This effectively creates an average of 1 curb cut per site for the two sites. Interior circulation is a simple double loaded parking corridor that has the city's required width and landscape areas.

Pedestrian circulation is provided by means of a sidewalk system built to city standards. This sidewalk system is provided on the three street sides of the building as well as internal walks that connect the building with parking areas and the street walks.

Topography
The existing topography is relatively flat. Storm water will therefore flow underground to a detention area on the east side of the building, then out into the municipal system. Further drainage is provided along the three street boundaries by way of municipal ditches/swales.

Retaining Walls
No retaining wall are required or planned for this development.

405 Garrison Ave. Ste. 103 · Fort Smith, AR 72901
Phone: 479-652-0175 · Fax: 479-434-5004 · www.cbgarchitects.com

General Requirements for Building Design:

Scale

This building will be a 4 story structure with a roof deck height of approximately 48.5 feet and an extreme height at the tallest portion of the highest roof of 62'. The buildings length is approximately 289' with a width of 75 feet. The building is taller than several of the buildings in the area. However, this helps to reduce site impermeability by raising the building vertically instead of spreading the building out over a large ground floor footprint. This height and shape configuration is also necessary for the typology of a hotel and residential building where each sleeping area requires a window and natural light.

The scale and composition of design elements have been set as they are in order to achieve a balanced façade and proportion. The human scale is achieved at the public entrance areas of the building where guests interact with the building.

Design

The hotel employs schematic massing concepts reminiscent of the Prairie Style in its overall horizontality of the two primary elevations. This horizontal is further accentuated by the horizontal window banks which serve the hotel's guestrooms. This horizontal theme extends down to the entry canopy which is an elongated flag roof canopy with partial openings in the roof that allow light to filter into the gathering spaces outside.

The roof lines are of slight pitch and slope low to allow the building to rise from the site but yet harmonize with the surrounding landscape as the building's roof lines and the earth horizon complement each other. Additionally, the roof massing is thickened to evoke the Prairie style.

The building materiality will be expressed in the use of native finishes. The use of stone, stucco, and fiber cement panels the building utilizes are common with the Prairie Style and help the building to appear as an extension of the landscape.

Materials and Colors

The building will use a combination of cement fiber board siding, exterior insulation finishing system, and manufactured stone. The colors of which are indicated in the schedule below. Samples will be submitted separate from this document.

EXTERIOR MATERIAL FINISH SCHEDULE

MARK	MATERIAL	LOCATION	MANUFACTURER	FINISH DESCRIPTION
A-1	FASCIA-ALUMINUM	UPPER ROOFS	BENJAMIN MOORE	COLOR TO MATCH BENJAMIN MOORE "BUCKHORN - 987"
A-2	FASCIA OR COPING - ALUMINUM	UPPER ROOFS	BENJAMIN MOORE	COLOR TO MATCH ADJACENT WALL COLOR
A-3	FASCIA-ALUMINUM	LOWER ROOFS	BENJAMIN MOORE	COLOR TO MATCH BENJAMIN MOORE "WHITE DIAMOND - BW 2121-60"
E-1	EIFS	REFER TO DRAWINGS	DRYVIT	FINE FINISH - BENJAMIN MOORE "WEIMARANER - AF-155"
E-2	EIFS	REFER TO DRAWINGS	DRYVIT	FINE FINISH - BENJAMIN MOORE "SHAKESPEARE TAN - 228"
P-1	FIBER CEMENT PANEL	BOARD PANELS	NICHIHA	ILLUMINATION SERIES - HORIZONTAL INSTALLATION 18"H x 60"L PANELS WITHOUT SCORE - BENJAMIN MOORE "CARRIAGE RED - BMCW 250"
P-2	FIBER CEMENT PANEL	BOARD PANELS	NICHIHA	ROUGH SAWN SERIES - VERTICAL INSTALLATION 10'H x 18"W PANELS - TOBACCO COLOR
P-3	FIBER CEMENT PANEL	BOARD PANELS	NICHIHA	ILLUMINATION SERIES - HORIZONTAL INSTALLATION 18"H x 60"L PANELS WITHOUT SCORE - BENJAMIN MOORE "WHITE DIAMOND - BW 2121-60"
PT-1	FIBER CEMENT SOFFIT	SOFFIT UPPER ROOFS	NICHIHA	NICHISOFFIT - SMOOTH - PAINTED TO MATCH BENJAMIN MOORE "SAVORY ASH - 986 - GLOSSY FINISH"
ST-1	MANUFACTURED STONE VENEER	ACCENT WALLS	EL DORADO STONE	FIELDLEDGE - PADOVA

P.O. Box 8336 · Fort Smith, AR 72902 · 477103 East 1125 Road · Muldrow, OK 74948
Phone: 479-652-0175 · Fax: 918-427-1011 · www.cbgarchitects.com

Landscape Design and Screening

A complete landscape design has been completed and submitted with this document. This landscape design has been completed per city standards and includes several techniques to achieve the overall strategy. First, street perimeter tree plantings have been provided to as well as the interior parking area trees. Also, shrubs have been provided where needed to screen mechanical units and other sight lines. Furthermore, foundational plantings have been provided at the base of the building to ground the building and provide flora where most guest foot traffic will be concentrated. The entryways receive an increase in these foundation plantings to accentuate the entries for guest courtesies.

Lighting

The development will utilize several different lighting strategies. For the site lighting, 20' high pole mounted, 200w, Metal Halide fixtures with full cut features are used. This is for general light levels in the parking and other site spaces. Other site lighting will include bollard lighting along the main sidewalk approach to the building. This further highlights the main path to the front entry. At the building, the entry has a higher amount of general lighting and decorative lighting to ensure safe passage into the building. Certain features such as a sitting area also has decorative task lighting. The building itself has accent lighting at the upper level which accents the roof lines.

Sincerely,

Chasen B. Garrett AIA, LEED, AP BD+C

P.O. Box 8336 · Fort Smith, AR 72902 · 477103 East 1125 Road · Muldrow, OK 74948
Phone: 479-652-0175 · Fax: 918-427-1011 · www.cbgarchitects.com

PLAN STATUS		
Δ#	DESCRIPTION	DATE

chasen b. garrett
ARCHITECTS, PLLC
405 GARRISON AVE. SUITE 103
FORT SMITH, ARKANSAS 72901
479.652.0175

TOWNEPLACE SUITES

CHESTERFIELD, MISSOURI

EXTERIOR RENDERING

STATE OF MISSOURI
CHASEN M. GARRETT
A-2004010812
ARCHITECT
10/5/2016

DATE:
10/05/2016

SHEET NUMBER:
A003.1