VII. F.

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

Planning Commission Staff Report

Project Type: Site Development Section Plan

Meeting Date: June 13, 2022

From: Mike Knight, Assistant City Planner *JMK*

Location: A 3.6 acre tract of land located southwest of Wild-Horse Creek Road and Lakeview Terrace.

Description: **Wildhorse Village, Lot 2A-2 (Terraces at Wildhorse Village) SDSP:** A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 3.6 acre tract of land zoned "PC&R" – Planned Commercial and Residence District located southwest of the intersection of Wild Horse Creek Road and Lakeview Terrace.

PROPOSAL SUMMARY

This request is to allow for new construction of multi-family town homes. The proposed development consists of 70 total units within 10 detached buildings. This is the fifth Site Development Section Plan submitted to the City for the 20 lot development known as Wildhorse Village.

Although the fifth submittal, this is the third development within Wildhorse Village that received recommendation from the Architectural Review Board (ARB) as the first two were single-family developments that are exempt from the ARB review. Building materials primarily consist of brick, metal shingle and fiber cement.

Figure 1: Rendered Image of the Entrance

HISTORY OF SUBJECT SITE

On March 19th, 2008, the City of Chesterfield City Council approved Ordinance 2449. This ordinance amended the previous governing zoning ordinance of the City of Chesterfield by changing the boundaries of the following: an "R-8" Residence District with a Planned Environmental Unit Procedure, "R-5" Residence District, "FPR-5" Residence District, "R-6A" PEU Residence District with a Planned Environmental Unit Procedure, "C-8" Planned Commercial District, "NU" Non-Urban District and "M-3" Planned Industrial District to **one "PC&R" Planned Commercial & Residence District.**

City of Chesterfield Ordinance 2449 governed the entire PC&R district but defined specific development criteria for 3 specific "Categories". Ordinance 2449 also defined 3 specific areas within the PC&R district known as Area 1, Area 2, and Area 3.

In February of 2018, the City of Chesterfield approved Ordinance 2990. This ordinance solely amended the legal description of the entire PC&R district. This legal description removed approximately 2.9 acres in the northwestern section of the district just north of Wild Horse Creek Road and added approximately 3.4 acres in the northwestern section of the district just south of Wild Horse Creek Road.

In November of 2018, the City of Chesterfield approved Ordinance 3023. This zoning request had two main objectives: (1) to amend the legal description and incorporate a .438 acre parcel zoned "NU" Non-Urban; and (2) to amend the development criteria for the zoning district. The ordinance amendment essentially allowed a development team the ability to provide a separate Landscape Plan, Lighting Plan, and sign requirements for the areas of the PC&R district located both north and south of Wild Horse Creek Road individually instead of one Concept Plan for all 99 acres.

In June of 2020, Stock & Associates Consulting Engineers Inc. on behalf of Wildhorse Village, LP made a request to amend the legal description and development criteria for an existing "PC&R" Planned Commercial and Residence District. The zoning petition had two main objectives. The first was to incorporate and re-zone a 0.6 acre "C-8" Planned Commercial District parcel to the "PC&R" Planned Commercial and Residence District known as "Downtown Chesterfield". The second was to amend the development criteria of the governing ordinance. City Council approved this request creating Ordinance 3114. Since the approval of this ordinance, there has been an abundance of plan submissions and a number of approvals specifically for Categories A and B of the ordinance. **Categories A and B are now commonly known as Wildhorse Village.**

On the following page (Figure 2) is a table that provides a high level historical summary of significant events specifically for the Wildhorse Village development.

Year	Month	Approval	Description	Action
2020	Aug	ORD 3114	Incorporated (0.6) acres into PC&R district and amended development criteria	Ordinance to facilitate the development known as Wildhorse Village
	October	SDCP	Concept Plan for Infrastructure only of Categories A & B	Allowed for grading to be reviewed and approved to facilitate roadways, storm sewers, and sanitary sewers
2021	Feb	ASDCP	Amended Concept Plan for Categories A&B	Allowed for a phased mixed use development of 17 lots known as Wildhorse Village
	May	SDSP	Site Development Section Plan for Lot 6	Approval for a 35 single family home development
			Site Development Section Plan for Lot 1	Approval for a 72 attached single family home development
	Sept	SDSP	Site Development Section Plan for Lot 2A-1	Approval for a 266 unit multi-family building
	October	ORD 3161	Ordinance to modify the development criteria of Wildhorse Village	Update to the height and placement of buildings
	December	RP	Record Plat for Wildhorse Village	Created an 18 lot development and associated common ground
2022	June	LS	Lot Split Plat for Lot 2B	Split Lot 2B into Lot 2B-1 and 2B-2
	June	SDSP	Site Development Section Plan for Lot 2B-1	Approval for a 16 unit condo building

Figure 2: Historical Summary

LOCATION OF SUBJECT SITE

As previously stated, Wildhorse Village is composed of 20 total lots. All of the lots are currently undeveloped, but construction is currently underway to facilitate the infrastructure (roadways, sanitary sewers, stormwater management, electric) involved with the development. There is

currently a Record Plat approved for the development. Lot 7A depicted on the Record Plat and Site Development Concept Plan is approved as Common Ground for the entire development. The subject site is a 3.6 acre tract of land that is north of the lake and north of the main street proposed for the overall development. Below (Figure 3) is an image to get a sense of where the 3.6 acre subject site is in relation to the overall 78.4 acres that make up Wildhorse Village.

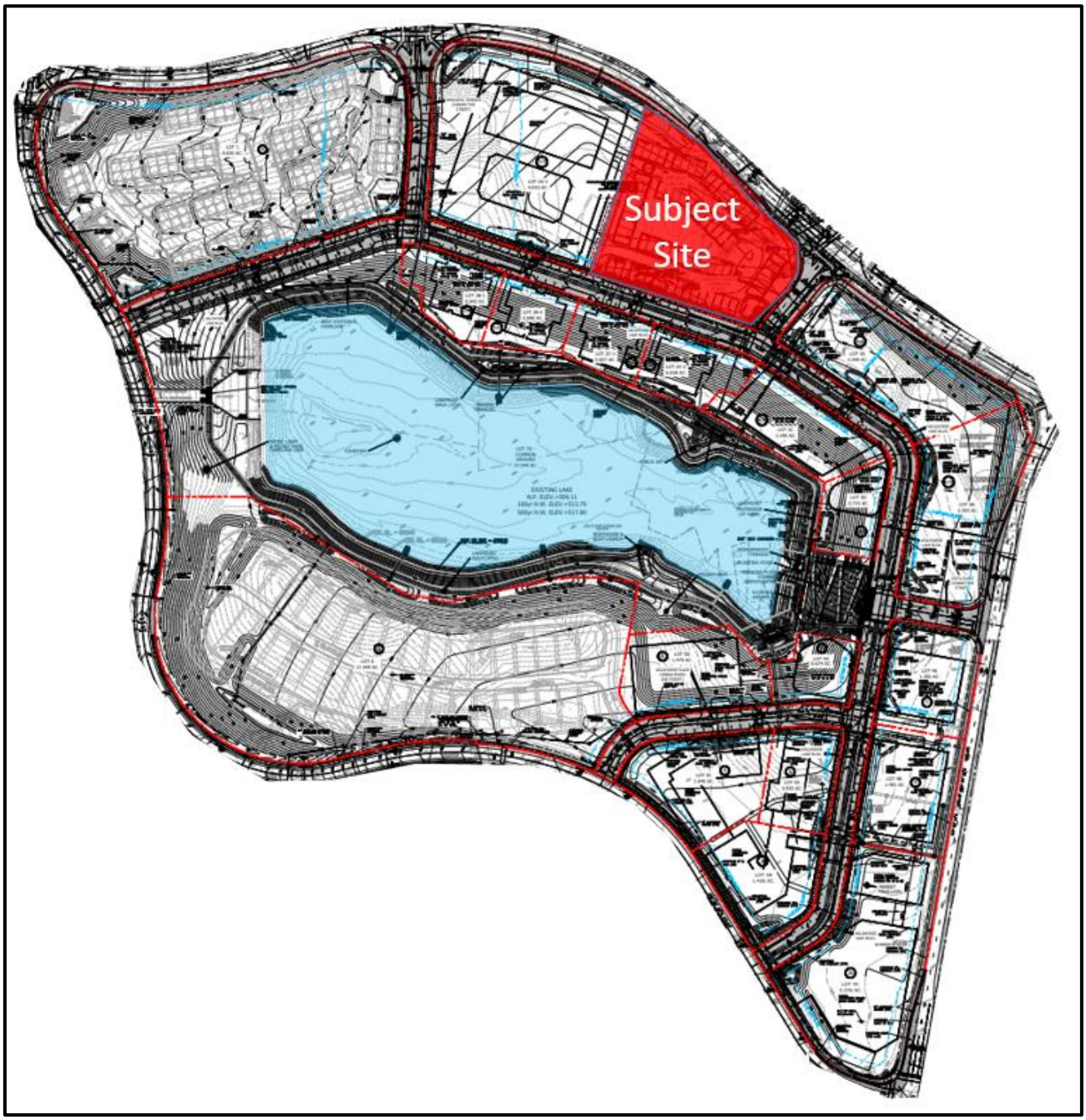


Figure 3: Location within the development

STAFF ANALYSIS

The subject site is located southwest of the intersection of Wild Horse Creek Road and Lakeview Terrace. Lakeview Terrace is a private road, owned and maintained by the development. The area is designated City Center (Urban Transition) within the City of Chesterfield Comprehensive Land Use Plan and this development would be 3.6 acres of the 78.4 acre development known as Wildhorse Village.

Zoning District:

A PC&R District development is intended to create a diverse residential and commercial mixed-use environment in which residential and commercial uses can be integrated pursuant to a downtown concept that encourages creative and coordinated design and architectural styles, efficient and effective pedestrian circulation, conservation of land resources, efficient and effective vehicular circulation, and where people can choose to live, work, eat, shop, enjoy cultural amenities and recreate.

Comprehensive Plan:

The subject site is located within Ward 2 of the City of Chesterfield. The City of Chesterfield Comprehensive Land Use Plan indicates this parcel is within the City Center (Urban Transition) land use designation. The Comprehensive Plan provides a character description of the Urban Transition area. The description states;

"Land developed to offer residents the opportunity to live, work, shop and play within the larger City Center area. This includes a mixture of housing types and residential densities, integrated with a number of goods and services, especially in the downtown core. Buildings typically stand multiple stories often with residential units above storefronts or other pedestrian activity. Parking is satisfied using on-street parking, structured parking, or shared rear-lot parking strategies. An interconnected network of walkable streets connects the neighborhood to the downtown core."

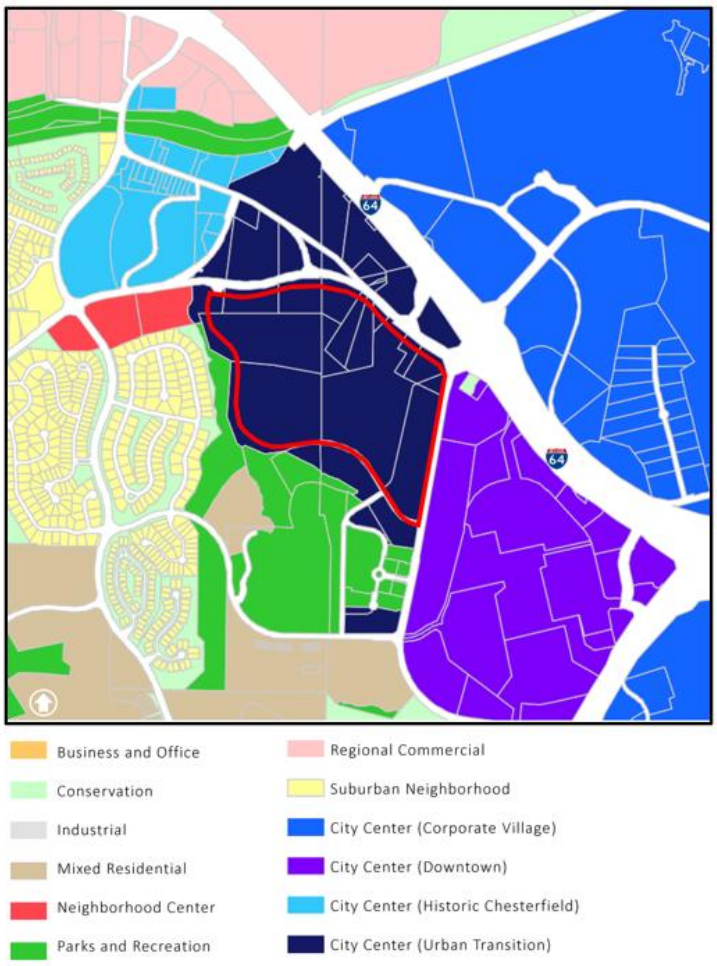


Figure 4: Comprehensive Plan

The City Center (Urban Transition) land use designation also states a series of development policies within the Comprehensive Plan. Below, are specific development policies (**blue**) followed by how the governing ordinance and the Site Development Section Plan relate to those policies.

City Center should serve as the physical and visual focus for the City and include both residential and commercial developments with parks, municipal services, and preservation of historic structures and areas, with cultural entertainment and pedestrian amenities for its residents.

This is a multi-family development that is east of an approved multi-family development and west of a programmed mixture of residential, office, and commercial activity centered by a lake and amenity areas.

The thoroughfare character should be urban and very walkable.

The project is very walkable with a 12' wide mixed use trail along Wild Horse Creek Road to the north, a 10' wide sidewalk along both the main street to the south, and Lakeview Terrace to the east with a walking trail around the lake to the south.

Buildings to be constructed closer to the roadways to promote the pedestrian experience.

The building is located along the main street (Wildhorse Lake Blvd.) and the plan references the required build-to line vs a set-back line to promote the pedestrian experience.

Incorporate a comprehensive network of open space throughout to accommodate small parks, gathering places and community gardens; preserve tree stands; and help reduce stormwater runoff.

This project has a community lake to the south of the multi-family building with pedestrian connections from the site to the lake.

Public art should be incorporated into new construction and re-development projects throughout the City Center.

The applicant provided the location of public art to the south of the building, visible to the public realm as one interacts with the corner of Lakeview Terrace and Wildhorse Lake Blvd.

General Requirements for Site Design:
This request is for 10 buildings consisting of 70 multi-family units on a 3.6 acre tract of land. The site has one access point off the internal main street to the south, known as Wildhorse Lake Blvd, with on-street parking in front of the development. The site has pedestrian accommodations along the perimeter roadways and throughout an internal courtyard.

A. Site Relationships

This is a multi-family development that is east of an approved 266 unit multi-family development, north of a programmed multi-family building, directly west of future programmed mixture of residential, office, and commercial activity all within the larger Wildhorse Village development.

B. Circulation System and Access

The site is accessed by one curb cut off Wildhorse Lake Blvd and will be a shared drive with an approved 266 unit multi-family building referenced as The Flats at Wildhorse Village. All vehicular access will utilize this drive for tenant parking, loading and trash. Internal pedestrian paths connect to the large pedestrian paths of the overall Wildhorse Village development. A color Site Development Section Plan (Figure 5) was provided in this packet depicting the access and circulation locations. Each unit has a two car garage that can be accessed through an internal drive.

Figure 5: Color Site Plan

C. Topography and Retaining Walls

The site slopes from a high point at the southwest corner property line towards the northeast, falling axproimately 10 feet. Due to the topography of the site, the proposed development utilizes retaining walls in the northwest corner. The walls are designed to be of minimal appearance with heights

ranging 3-5 feet. The modular retaining wall is of "Bethany Ledge Blend" color which is a common wall type approved within the overall development.

General Requirements for Building Design:
There are 10 buildings within Lot 2A-2. The smallest building contains 4 units and the largest contains 12 units. All of the buildings are 3 stories tall, roughly 33' in height, and contain a 2 space parking garage on the rear of the buildings. The building is pushed up close to the internal roadway (Wildhorse Lake Blvd.) as required by the site specific governing ordinance. The buildings will be highly visible from all directions.

D. Scale, Design, Materials, and Color
In recent history, three developments in close proximity north of Wildhorse Village have been approved and received full occupancy. The first is a four story multi-family residential building, constructed primarily with stone and fiber cement siding known as Aventura at Wildhorse Creek. The other two are a 3-4 story mixed use building, and 5 story hotel known as Wildhorse and AC Hotel.

The applicant has provided images of all three buildings within the attached packet. The site specific governing ordinance (Ordinance 3161) has specific language in regards to the building placement, overall height, first floor height, and function. There is also a streetscape exhibit for Wildhorse Lake Blvd. The placement, overall height, and function all comply with the site specific ordinance.

The site does have ordinance requirements in which the applicant is seeking modifications, in which the ordinance itself permits. The ordinance requires rooftop mechanical equipment within architecturally designed, fully enclosed penthouses that complement the building design. The applicant does not have a fully enclosed penthouse but is requesting a modification to propose a screen and unique placement of the units to visually hide the condensing units. The applicant is also seeking a modification in the first floor building height. A full narrative request of both requests are included in the packet.

The building is primarily four different colors of brick on all four sides of the building. Fiber cement and metal shingles are also incorporated into the structures all in specific gray/slate color.

It should be noted that this is the same development team as the neighboring property to the west "The Flats at Wildhorse Creek". Building material samples for both this project and The Flats building were provided at the May 12th Architectural Review Board meeting as the applicant stated in the attached narrative statement; *"The warm color palete of browns and grays is intended to harmonize with the neighboring Flats at Wildhorse Village to feel calm and inviting".*

On the following page (Figure 6) is an image of the primary materials and their general building placement.

Figure 6: Building Materials

E. Landscape Design

The site contains 27 deciduous canopy trees (43%), 22 evergreen trees (35%), and 14 deciduous understory trees (22%). The growth rates for the trees (excluding street trees) are 11% slow, 44% medium, and 45% fast growing. The most common tree on the site is the Emerald Green Arborvitae.

F. Screening

The applicant has provided the aforementioned roof-top screening narrative/modification request and is included within the ARB packet. The trash enclosure is 8 feet tall constructed of brick with a metal gate.

G. Lighting

All exterior lighting will adhere to all UDC lighting code requirements. All exterior lighting will be white in color, and all the cut sheets have been included within the submittal. The site does have a few bollards along the pedestrian areas within the internal courtyard.

MODIFICATIONS

There are two modifications being requested by the applicant (1st Floor Building Height and Rooftop Mechanical Screening).

1st Floor Building Height

The site specific governing ordinance states the first floor building height shall be 12-30 feet. The applicant is proposing a 10' first floor height in lieu of 12' stating there is a significant amount of construction waste, time, and money required to cut the studs down to size. For reference, the

development directly to the west "Flats at Wildhorse Creek" requested 11' 7 7/8" for the first floor height which was approved.

Rooftop Mechanical Units

The governing ordinance requires rooftop mechanical equipment within architecturally designed, fully enclosed penthouses that complement the building design. The applicant states they are proposing to screen rooftop mechanical equipment on all visible sides with the materials that are an integral part of the architecture. Equipment is located within 3rd floor alcoves. Below is a rendering that assists in the understanding of where the units will be located.

Figure 7: Example Mechanical Unit Location

ARCHITECTURAL REVIEW BOARD

The above-referenced project was reviewed by the Architectural Review Board on Thursday May 12th, 2022. At that time, the Board made a motion to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for Lot 2A-2 of Wildhorse Village to the Planning Commission with a recommendation of approval with the following conditions:

- Modifications are made to the rear elevations of the buildings to break up the long expanses of monochromatic fiber board by introducing items such as variation of color, texture, material, drivable surface, or garage doors to add interest to the elevation.

- Provide landscaping around the future above-ground utilities and electrical meters.

The applicant has since resubmitted and fulfilled both conditions. All of the updates have been included with the Planning Commission packets. **It is also important to note, after considerable discussion, the Architectural Review Board was supportive of both aforementioned modification request.**

On the following page are images (Figure 8) to assist in the understanding on the updates that were made to address the first condition stated above. The update is focused on the rear elevation in which the brick material is now incorporated.

Figure 8: Updates to the Rear Facades

PARKING REQUIREMENTS

In conjunction with this request, the Wildhorse Village development recently submitted an Amended Site Development Concept Plan (ASDCP) for approval. One of the items updated was the density allocation table. The table was amended to include 70 residential units on Lot 2A-2. As the ASDCP was moving through the approving bodies, there was a considerable amount of discussion in regards to the parking requirements for Lot 2A-2. The ASDCP was approved by the City of Chesterfield City Council on June 7th. The City's Unified Development Code requires a minimum of 1.75 spaces for every living unit with no maximum requirement. The minimum number of parking spaces required for Lot 2A-2 is 123 according to the Unified Development Code.

The site specific governing ordinance allows for a reduction to the minimum requirement as there is an internal roadway with on-street parking that may be utilized by all the lots. The submitted Lot 2A-2 Site Development Section Plan depicts 152 parking spaces, not including any of the parking included with the internal roadway. For reference there are an additional 69 spaces along the internal roadway from Burkhardt to the eastern edge of Lot 2A-2.

RENDERING

Below in Figures 9-11 are renderings of three prominent viewpoints.

Figure 9: Along Wildhorse Lake Boulevard

Figure 10: Internal Courtyard

Figure 11: Along Wild Horse Creek Road

DEPARTMENT INPUT

Staff has reviewed the submittal and has found the application to be in conformance with the site specific ordinance, Comprehensive Plan, and Unified Development Code. As previously stated, the applicant is requesting a modification to the site specific performance standards, which is a process specifically described within the site specific governing ordinance. Staff recommends approval of the Wildhorse Village, Lot 2A-2 (Terraces at Wildhorse Village) Site Development Section Plan.

MOTION

The following options are provided to the Planning Commission for consideration relative to this application:

1) "I move to approve (or deny) the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Wildhorse Village, Lot 2A-2 (Terraces at Wildhorse Village)."

2) "I move to approve the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Wildhorse Village, Lot 2A-2 (Terraces at Wildhorse Village) with the following conditions…" (Conditions may be added, eliminated, altered, or modified)

Attachments

1. Site Development Section Plan
2. Landscape Plan
3. Lighting Plan
4. Architectural Elevations
5. Architects Statement of Design
6. Modification Request

STOCK & ASSOCIATES
Consulting Engineers, Inc.

March 15, 2022

City of Chesterfield
690 Chesterfield Pkwy W.
Chesterfield MO 63017-0760

Attention: Mr. Justin Wyse – Director of Planning

Re: Wildhorse Village Lot 2A-2

Modification Request to City of Chesterfield Ordinance No. 3161
Attachment A -Section IB.1-Building Floor Height
Attachment A -Section IG.5 – Rooftop Mechanical Equipment Screening

Dear Justin,

We respectfully request a modification to two sections of City of Chesterfield Ordinance 3161, specifically Attachment A- Section IB.1-Building Floor Height & Section IG.5 Rooftop Mechanical Screening.

Section IB.1 of Ordinance No. 3161, states: "first story heights shall be 12-30 feet with the exception that the residential buildings in the geographic areas of Lots 1 and 6 on the Preliminary Development Plan shall be 9-30 feet." We are proposing 10'-0" first floor height in lieu of 12'-0". As designed, the first floor height uses precut dimensional lumber. In order to achieve 12'-0" as required by the ordinance, a significant amount of construction waste, time and money would be required to cut the studs down to size.

Section IG.5 of Ordinance No. 3161, states: "rooftop mechanical equipment shall be permitted on roofs within architecturally designed, fully enclosed penthouses that complement the building design." We are proposing to screen rooftop equipment on all visible sides with materials that are an integral part of the architecture. Equipment is located within 3rd floor alcoves, which will be treated as an integral part of the architecture and will not visually weaken the design of the structure, per UDC Section 405.04.010.

Sincerely,

George M. Stock

George M. Stock, P.E. - President

CC: Michael Hamburg – The Flats at Wildhorse Village, LLC
Jeff Tegethoff – Wildhorse Village, LP
Natasha Das – Wildhorse Village, LP
Tyson Pyle – Arcturis
Melanie Weber – Arcturis
Drew Dixon, P.E., Associate
Kate Stock Gitto, P.E., Project Manager

257 Chesterfield Business Parkway, St. Louis, MO 63005
636.530.9100 – Main | 636.530.9130 – Fax
www.stockassoc.com | general@stockassoc.com

WILDHORSE TOWNHOMES - LOT 2A-2

SITE DEVELOPMENT SECTION PLAN

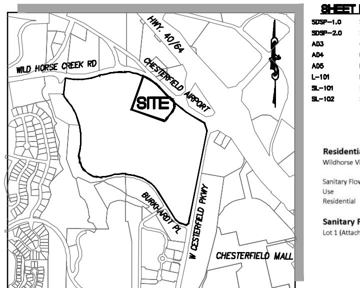
A TRACT OF LAND BEING LOT 2A-2 OF WILDHORSE VILLAGE AS RECORDED IN PLAT BOOK 369 PAGE 579 OF THE ST. LOUIS COUNTY RECORDS, LOCATED IN U.S. SURVEY 123 IN TOWNSHIP 45 NORTH, RANGE 4 EAST, OF THE FIFTH PRINCIPAL MERIDIAN, CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI, CATEGORY A - ORDINANCE 3161

ABBREVIATIONS

ATG – ADJUST TO GRADE
B.C. – BACK OF CURB
C.O. – CLEANOUT
DB. – DEED BOOK
E – ELECTRIC
ELEV. – ELEVATION
EX. – EXISTING
F.C. – FACE OF CURB
FL – FLOWLINE
FT. – FEET
FND. – FOUND
G – GAS
H.W. – HIGH WATER
LFB – LOW FLOW BLOCKED
M.H. – MANHOLE
N/F – NOW OR FORMERLY
PB. – PLAT BOOK
PG. – PAGE
PR. – PROPOSED
P.V.C. – POLYVINYL CHLORIDE PIPE
R.C.P. – REINFORCED CONCRETE PIPE
R/W – RIGHT-OF-WAY
SQ. – SQUARE
T – TELEPHONE CABLE
T.B.A. – TO BE ABANDONED
T.B.R. – TO BE REMOVED
T.B.R.&R. – TO BE REMOVED AND REPLACED
TYP. – TYPICALLY
U.I.P. – USE IN PLACE
U.O.N. – UNLESS OTHERWISE NOTED
V.C.P. – VITRIFIED CLAY PIPE
W – WATER
(86'W) – RIGHT-OF-WAY WIDTH

LEGEND

EXISTING SANITARY SEWER
EXISTING STORM SEWER
EXISTING TREE
EXISTING BUILDING
EXISTING CONTOUR
SPOT ELEVATION
EXISTING UTILITIES
FOUND 1/2" IRON PIPE
SET IRON PIPE
FOUND CROSS
FOUND STONE
FIRE HYDRANT
LIGHT STANDARD
BUSH
SIGN
NOTES PARKING SPACES
GUY WIRE
POWER POLE
WATER VALVE
DENOTES RECORD INFORMATION ( )
ACCESSIBLE PARKING
PROPOSED CONTOUR 442
PROPOSED SPOT 442.25
PROPOSED STORM
PROPOSED SANITARY SS



LOCATION MAP
(NOT TO SCALE)

SHEET INDEX

SDSP-1.0 SITE DEVELOPMENT SECTION PLAN
SDSP-2.0 SITE DEVELOPMENT SECTION PLAN – DETAILS
A03 OVERALL ELEVATIONS
A04 BUILDING ELEVATIONS
A05 BUILDING ELEVATIONS
L-101 LANDSCAPE SITE PLAN
SL-101 SITE LIGHTING PLAN
SL-102 SITE LIGHTING PLAN

PERTINENT DATA

OWNER:	WILDHORSE VILLAGE, LP A MISSOURI LIMITED PARTNERSHIP BOOK: 23906 – PAGE: 2981
OVERALL AREA:	3.597 Acres ± or 156,680 s.f.
EXISTING ZONING:	PC & R PER ORDINANCE #3161
LOCATOR NO:	18T630195
WUNNERNBERG'S:	PG. 21, GRID 18FF & 19EE
FIRE DISTRICT:	MONARCH FIRE PROTECTION DISTRICT
SCHOOL DISTRICT:	PARKWAY
SEWER DISTRICT:	METROPOLITAN ST. LOUIS SEWER DIST.
WATER SHED:	MISSOURI RIVER
FEMA MAP:	29189C0165K, FEB 4, 2015
ELECTRIC COMPANY:	AMEREN UE – RIC BEHNEN & LES NOLAN (314) 713-4604 / RBEHNEN@AMEREN.COM (314) 992-8903 / LNOLAN@AMEREN.COM
GAS COMPANY:	SPIRE INC – RAMONA STEVENS & BRIAN LANGENBACHER (314) 575-4843 / RAMONA.STEVENS@SPIREENERGY.COM (314) 713-6572 / BRIAN.LANGENBACHER@SPIREENERGY.COM
PHONE COMPANY:	AT&T – KATHY SMITH (636) 949-1312 / KS9340@ATT.COM
WATER COMPANY:	MISSOURI AMERICAN WATER COMPANY – MATT JASPERING (314) 606-2815 / MATT.JASPERING@AMWATER.COM
USACE PERMIT:	MVS-2020-554

PROPERTY DESCRIPTION

TRACT OF LAND BEING LOT 2A-2 OF WILDHORSE VILLAGE AS RECORDED IN PLAT BOOK 369 PAGE 579 OF THE ST. LOUIS COUNTY RECORDS, LOCATED IN U.S. SURVEY 123 IN TOWNSHIP 45 NORTH, RANGE 4 EAST, OF THE FIFTH PRINCIPAL MERIDIAN, CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT SOUTHWEST CORNER OF ABOVE SAID LOT 2A-2, BEING THE SOUTHWEST CORNER OF LOT 2-1 OF SAID SUBDIVISION, BEING ON THE NORTH RIGHT OF WAY LINE OF WILDHORSE LAKE BOULEVARD, 62.00 FEET WIDE, THENCE NORTH 18 DEGREES 45 MINUTES 05 SECONDS EAST, ALONG THE EAST LINE OF SAID LOT 2A-1, 442.20 FEET TO A CURVE TO THE RIGHT HAVING A RADIUS OF 1,098.00 FEET, BEING ON THE SOUTH RIGHT OF WAY LINE OF WILD HORSE CREEK ROAD, VARIABLE WIDTH; THENCE THE FOLLOWING COURSES AND DISTANCES ALONG SAID SOUTH RIGHT OF WAY LINE: ALONG SAID CURVE AN ARC DISTANCE OF 169.63 FEET AND A CHORD WHICH BEARS SOUTH 51 DEGREES 18 MINUTES 30 SECONDS EAST, 169.46 FEET; SOUTH 00 DEGREES 43 MINUTES 13 SECONDS WEST, 4.66 FEET; SOUTH 44 DEGREES 16 MINUTES 55 SECONDS EAST, 216.96 FEET; SOUTH 33 DEGREES 41 MINUTES 57 SECONDS EAST, 12.47 FEET TO A CURVE TO THE LEFT HAVING A RADIUS OF 2,917.00 FEET; ALONG SAID CURVE AN ARC DISTANCE OF 39.59 FEET AND A CHORD WHICH BEARS SOUTH 48 DEGREES 37 MINUTES 01 SECOND EAST, 39.59 FEET; SOUTH 49 DEGREES 00 MINUTES 20 SECONDS EAST, A DISTANCE OF 14.56 FEET TO A CURVE TO THE RIGHT HAVING A RADIUS OF 90.00 FEET; ALONG SAID CURVE AN ARC DISTANCE OF 9.51 FEET AND A CHORD WHICH BEARS SOUTH 45 DEGREES 58 MINUTES 48 SECONDS EAST, 9.50 FEET; SOUTH 40 DEGREES 25 MINUTES 28 SECONDS WEST, A DISTANCE OF 7.17 FEET; AND SOUTH 49 DEGREES 40 MINUTES 30 SECONDS EAST, 26.10 FEET, TO THE NORTHWEST RIGHT OF WAY LINE OF LAKEVIEW TERRANCE, 53.00 FEET WIDE, BEING ON A CURVE TO THE RIGHT HAVING A RADIUS OF 90.00 FEET; THENCE THE FOLLOWING COURSES AND DISTANCES ALONG SAID NORTHWEST RIGHT OF WAY LINE: ALONG SAID CURVE AN ARC DISTANCE OF 29.51 FEET AND A CHORD WHICH BEARS SOUTH 16 DEGREES 16 MINUTES 23 SECONDS EAST, 29.38 FEET TO A COMPOUND CURVE TO THE RIGHT HAVING A RADIUS OF 119.00 FEET; WITH SAID CURVE AN ARC DISTANCE OF 48.03 FEET AND A CHORD WHICH BEARS SOUTH 00 DEGREES 25 MINUTES 43 SECONDS WEST, 47.70 FEET TO A COMPOUND CURVE TO THE RIGHT HAVING A RADIUS OF 60.00 FEET; WITH SAID CURVE AN ARC LENGTH OF 15.15 FEET AND A CHORD WHICH BEARS SOUTH 19 DEGREES 13 MINUTES 27 SECONDS WEST, 15.11 FEET TO A COMPOUND CURVE TO THE RIGHT HAVING A RADIUS OF 91.00 FEET; WITH SAID CURVE WITH AN LENGTH OF 22.09 FEET AND A CHORD WHICH BEARS SOUTH 33 DEGREES 24 MINUTES 43 SECONDS WEST, 22.04 FEET; SOUTH 40 DEGREES 22 MINUTES 01 SECOND WEST, 81.80 FEET TO A CURVE TO THE LEFT HAVING A RADIUS OF 275.50 FEET; ALONG SAID CURVE AN ARC DISTANCE OF 51.37 FEET AND A CHORD WHICH BEARS SOUTH 35 DEGREES 02 MINUTES 40 SECONDS WEST, 51.30 FEET; AND SOUTH 29 DEGREES 43 MINUTES 19 SECONDS WEST, 3.45 FEET, TO THE NORTH RIGHT OF WAY LINE OF ABOVE SAID WILDHORSE LAKE BOULEVARD, BEING ON A CURVE TO THE LEFT HAVING A RADIUS OF 281.00 FEET; THENCE ALONG THE NORTH RIGHT OF WAY LINE OF SAID WILDHORSE LAKE BOULEVARD, WITH SAID CURVE AN ARC DISTANCE OF 27.27 FEET AND A CHORD WHICH BEARS NORTH 68 DEGREES 28 MINUTES 09 SECONDS WEST, 27.25 FEET; AND NORTH 71 DEGREES 14 MINUTES 55 SECONDS WEST, 398.06 FEET TO THE POINT OF BEGINNING.
CONTAINING 156,680 SQUARE FEET OR 3.597 ACRES, MORE OR LESS.

This Site Development Section Plan was approved by the City of Chesterfield Planning Commission and duly verified on the ______ day of ____________ 2022, by the Chairperson of said Commission, authorizing the recording of this Site Development Section Plan pursuant to Chesterfield Ordinance No. 200, as attested to by the Director of Planning and Development Services and the City Clerk.

By: ______________________
Justin Wyse, AICP
Director of Planning
City of Chesterfield, Missouri

By: ______________________
Vickie McGownd, City Clerk
City of Chesterfield, Missouri

Wildhorse Village, LP, a Missouri Limited Partnership, the owner of the property shown on this plan for and in consideration of being granted a permit to develop property under the provisions of Chapter. "PC&R" - Planned Commercial & Residence of the City of Chesterfield (applicable subsection) (present zoning) Ordinance No. 3161, do hereby agree and declare that said property from the date of recording this plan shall be developed only as shown thereon, unless said plan is amended by the Planning Commission, or voided or vacated by order of ordinance of the City of Chesterfield Council.

Wildhorse Village, LP

by: ______________________

STATE OF MISSOURI } SS.
COUNTY OF ST. LOUIS }

On this ____ day of ____________, 2022, before me personally appeared ____________, who being by me duly sworn, did say he is the ________ of ____________, and that said instrument was signed on behalf of said limited liability company, and that said ____________ acknowledged said instrument to be the free act and deed of said limited liability company.

IN WITNESS WHEREOF, I have signed and sealed the foregoing the day and year first above written.

______________________ Notary Public

______________________ Print Name

My commission expires: __________

CONTRACTOR'S INSURANCE REQUIREMENTS

PRIOR TO OBTAINING A CONSTRUCTION PERMIT FROM THE METROPOLITAN ST. LOUIS SEWER DISTRICT, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE THE DISTRICT WITH A COPY OF AN EXECUTED CERTIFICATE OF INSURANCE INDICATING THAT THE PERMITTEE HAS OBTAINED AND WILL CONTINUE TO CARRY COMMERCIAL GENERAL LIABILITY AND COMPREHENSIVE AUTO LIABILITY INSURANCE. THE REQUIREMENTS AND LIMITS SHALL BE AS STATED IN THE "RULES AND REGULATIONS AND ENGINEERING DESIGN REQUIREMENTS FOR SANITARY AND STORMWATER DRAINAGE FACILITY", SECTION 10.090 (ADDENDUM).

ST. LOUIS COUNTY BENCHMARK

BENCHMARK# 12048
NGVD29 Elev = 557.81
"Sq" on top of curb at end of rounding along the north curb line of the easterly extension of Burkhardt Place on the east side of Chesterfield Village Parkway; 0.2 mile north of Lydia Hills Drive.

PREPARED FOR:

WILDHORSE VILLAGE, LP
A MISSOURI LIMITED PARTNERSHIP
CARE OF CRG
2199 INNERBELT BUSINESS CENTER DR.
ST. LOUIS, MO 63114
PHONE 314.429.5100
ATTN: JEFF TEGETHOFF – 314.492.2572
OPERATING PARTNER

UTILITY NOTE:

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS, RECORDS AND INFORMATION, AND, THEREFORE DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NONEXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE FACILITIES, STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319 RSMo.

STOCK AND ASSOCIATES CONSULTING ENGINEERS, INC. AND THE UNDERSIGNED ENGINEER HAVE NO RESPONSIBILITY FOR SERVICES PROVIDED BY OTHERS TO IMPLEMENT THE IMPROVEMENTS SHOWN ON THIS PLAN AND ALL OTHER DRAWINGS WHERE THE UNDERSIGNED ENGINEER'S SEAL APPEARS. THE CONSTRUCTION MEANS AND METHODS ARE THE SOLE RESPONSIBILITY OF THE OWNER AND CONTRACTOR. STOCK AND ASSOCIATES CONSULTING ENGINEERS, INC. HAS NO RESPONSIBILITY TO VERIFY FINAL IMPROVEMENTS AS SHOWN ON THIS PLAN UNLESS SPECIFICALLY ENGAGED AND AUTHORIZED TO DO SO BY THE OWNER OR CONTRACTOR.

ST. LOUIS COUNTY STANDARD NOTES

1. ALL PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED TO ST. LOUIS COUNTY STANDARDS.
2. NO SLOPES WITHIN ST. LOUIS COUNTY RIGHT-OF-WAY SHALL EXCEED 3 (HORIZONTAL) TO 1 (VERTICAL).
3. STORM WATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS.
4. ALL PROPOSED ACCESS TO ST. LOUIS COUNTY ROADS SHALL MEET MINIMUM ST. LOUIS COUNTY SIGHT DISTANCE REQUIREMENTS.
5. ALL GRADING AND DRAINAGE SHALL BE IN CONFORMANCE WITH ST. LOUIS COUNTY STANDARDS.
6. ALL HYDRANTS, POWER POLES OR OTHER POTENTIAL OBSTRUCTIONS WITHIN THE ST. LOUIS COUNTY ROAD RIGHT-OF-WAY SHALL HAVE A MINIMUM TWO (2) FOOT SETBACK FROM FACE OF CURB OR EDGE OF PAVEMENT, AS DIRECTED BY THE ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC.
7. UTILITY WORK WITHIN COUNTY RIGHT-OF-WAY OR EASEMENT REQUIRES A SEPARATE SPECIAL USE PERMIT.
8. ANY ENTITY THAT PERFORMS WORK ON ST. LOUIS COUNTY MAINTAINED PROPERTY SHALL PROVIDE THE COUNTY WITH A CERTIFICATE OF INSURANCE EVIDENCING GENERAL LIABILITY COVERAGE (BODILY INJURY AND PROPERTY DAMAGE) IN THE AMOUNTS SPECIFIED AS THE LIMITS OF LIABILITY SET BY THE STATE FOR PUBLIC ENTITIES. SUCH CERTIFICATE SHALL INCLUDE 'ST. LOUIS COUNTY' AS AN ADDITIONAL INSURED AND SHALL BE PROVIDED PRIOR TO THE ISSUANCE OF ANY PERMIT. CERTIFICATE SHALL PROVIDE FOR A 30 DAY POLICY CANCELLATION NOTICE TO ST. LOUIS COUNTY. UPON REQUEST, THE COUNTY WILL PROVIDE THE SPECIFIC AMOUNTS FOR BOTH PER PERSON AND PER OCCURRENCE LIMITS.
9. PRIOR TO SPECIAL USE PERMIT ISSUANCE BY THE ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC, A SPECIAL CASH ESCROW OR A SPECIAL ESCROW SUPPORTED BY AN IRREVOCABLE LETTER OF CREDIT, MAY BE REQUIRED TO BE ESTABLISHED WITH THE ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC TO GUARANTEE COMPLETION OF THE REQUIRED ROADWAY IMPROVEMENTS.
10. COORDINATE WITH COUNTY AR-1817 PRIOR TO THE START OF ANY WORK ON WILD HORSE CREEK ROAD.

Residential Sanitary Flow Estimate - Lot 2A-2
Wildhorse Village (Stock JN 221-7056)

Sanitary Flow Rates (Average Daily Flow - ADF)

Use	Flow Rate	
Residential	370 GPD	(100 GPD/Person x 3.7 Persons/Residence)

Sanitary Flows - MSD Standard

Lot 1 (Attached Townhomes)	70 Units	x	370 GPD/Unit	=	25,900 GPD
Average Daily Flow (ADF)			**TOTAL =**		**25,900 GPD** 0.04 CFS
Peak Daily Flow = 4.0 x ADF			**PDF =**		**103,600 GPD** 0.16 CFS

UNIT	ADDRESS	UNIT	ADDRESS
1	16389 WATERSOUND TERRACE	36	16376 LAKEVIEW CIRCLE
2	16385 WATERSOUND TERRACE	37	16380 LAKEVIEW CIRCLE
3	16381 WATERSOUND TERRACE	38	16384 LAKEVIEW CIRCLE
4	16377 WATERSOUND TERRACE	39	332 TERRACE BLVD
5	16373 WATERSOUND TERRACE	40	328 TERRACE BLVD
6	16369 WATERSOUND TERRACE	41	324 TERRACE BLVD
7	16365 WATERSOUND TERRACE	42	320 TERRACE BLVD
8	16361 WATERSOUND TERRACE	43	316 TERRACE BLVD
9	16329 WATERSOUND TERRACE	44	312 TERRACE BLVD
10	16325 WATERSOUND TERRACE	45	308 TERRACE BLVD
11	16321 WATERSOUND TERRACE	46	304 TERRACE BLVD
12	16317 WATERSOUND TERRACE	47	300 TERRACE BLVD
13	16313 WATERSOUND TERRACE	48	16378 WATERSOUND TERRACE
14	16309 WATERSOUND TERRACE	49	16374 WATERSOUND TERRACE
15	16305 WATERSOUND TERRACE	50	16370 WATERSOUND TERRACE
16	16301 WATERSOUND TERRACE	51	16366 WATERSOUND TERRACE
17	16300 LAKEVIEW CIRCLE	52	16326 WATERSOUND TERRACE
18	16304 LAKEVIEW CIRCLE	53	16322 WATERSOUND TERRACE
19	16308 LAKEVIEW CIRCLE	54	16318 WATERSOUND TERRACE
20	16312 LAKEVIEW CIRCLE	55	16314 WATERSOUND TERRACE
21	16316 LAKEVIEW CIRCLE	56	16310 WATERSOUND TERRACE
22	16320 LAKEVIEW CIRCLE	57	16306 WATERSOUND TERRACE
23	16324 LAKEVIEW CIRCLE	58	16302 WATERSOUND TERRACE
24	16328 LAKEVIEW CIRCLE	59	16331 LAKEVIEW CIRCLE
25	16332 LAKEVIEW CIRCLE	60	16335 LAKEVIEW CIRCLE
26	16336 LAKEVIEW CIRCLE	61	16339 LAKEVIEW CIRCLE
27	16340 LAKEVIEW CIRCLE	62	16343 LAKEVIEW CIRCLE
28	16344 LAKEVIEW CIRCLE	63	16347 LAKEVIEW CIRCLE
29	16348 LAKEVIEW CIRCLE	64	16351 LAKEVIEW CIRCLE
30	16352 LAKEVIEW CIRCLE	65	16355 LAKEVIEW CIRCLE
31	16356 LAKEVIEW CIRCLE	66	16359 LAKEVIEW CIRCLE
32	16360 LAKEVIEW CIRCLE	67	16363 LAKEVIEW CIRCLE
33	16364 LAKEVIEW CIRCLE	68	16367 LAKEVIEW CIRCLE
34	16368 LAKEVIEW CIRCLE	69	16371 LAKEVIEW CIRCLE
35	16372 LAKEVIEW CIRCLE	70	16375 LAKEVIEW CIRCLE

SURVEYOR'S CERTIFICATION

This is to certify that Stock and Associates Consulting Engineers, Inc. has prepared this Site Development Section Plan from a field survey and does not represent a property boundary survey. The information shown is a correct representation of all existing and proposed land divisions.

STOCK AND ASSOCIATES CONSULTING ENGINEERS INC.
L.S. No. 222-D

Walter J Pfleger, Missouri L.S. No. 2008000728

GEOTECHNICAL ENGINEER'S STATEMENT

Midwest Testing, at the request of Wildhorse Village LP, has provided geotechnical services for the project proposed hereon. Geotechnical explorations were conducted for the grading, infrastructure, and slopes of the overall Wildhorse Village development. Our findings indicate that the earth-related aspects are suitable for the grading and infrastructure construction proposed hereon pursuant to the recommendations set forth in our April 7, 2020 report titled "Revised Preliminary Geotechnical Exploration (MT Job No. 14938) – Pearl/RGA – Downtown Chesterfield – Chesterfield, Missouri."

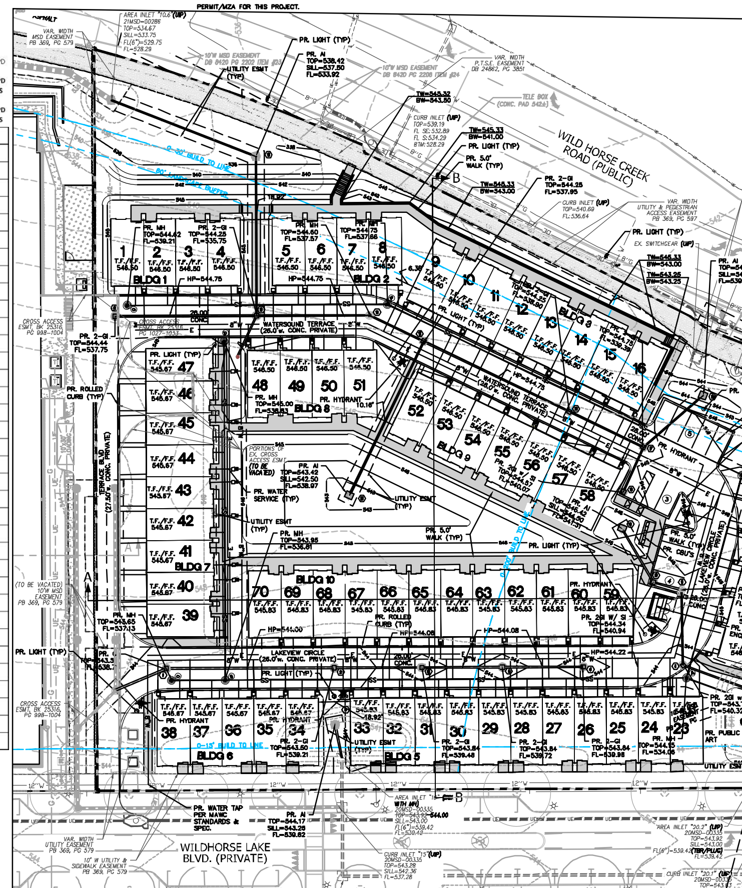
Richard D. Laughlin, P.E.
PE-20132

March 9, 2022
Date

STATE OF MISSOURI – RICHARD DAVID LAUGHLIN – NUMBER E-20132 – REGISTERED PROFESSIONAL ENGINEER

GENERAL NOTES

1. BOUNDARY AND TOPOGRAPHICAL SURVEY BY STOCK AND ASSOCIATES CONSULTING ENGINEERS, INC.
2. ALL GRADING AND DRAINAGE TO BE IN CONFORMANCE WITH THE ST. LOUIS COUNTY, MSD AND CITY OF CHESTERFIELD STANDARDS.
3. ALL UTILITIES SHOWN HAVE BEEN LOCATED BY THE ENGINEER FROM AVAILABLE RECORDS. THEIR LOCATION SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES, PRIOR TO CONSTRUCTION, TO HAVE EXISTING UTILITIES FIELD LOCATED. SHOULD ANY CONFLICTS BE EVIDENT, THE CONTRACTOR SHALL NOTIFY THE OFFICE OF THE ENGINEER IMMEDIATELY.
4. ON-SITE STORM WATER DRAINAGE REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE SECTION 31-04-12, STORMWATER STANDARDS, IN THE UNIFIED DEVELOPMENT CODE.
5. OFF-SITE GRADING EASEMENTS, IF REQUIRED, SHALL BE EXECUTED AND RECORDED PRIOR TO THE COMMENCEMENT OF ANY OFF-SITE GRADING.
6. CROSS-ACCESS EASEMENTS WHERE REQUIRED, SHALL BE EXECUTED AND RECORDED AS INDIVIDUAL LOTS ARE DEVELOPED.
7. ALL PROPOSED IMPROVEMENTS WITHIN THE ST. LOUIS COUNTY RIGHT-OF-WAY SHALL BE CONSTRUCTED TO ST. LOUIS COUNTY STANDARDS.
8. TREE PRESERVATION AND LANDSCAPING SHALL BE IN ACCORDANCE WITH SECTION 31-04-02, TREE PRESERVATION AND LANDSCAPE REQUIREMENTS, IN THE UNIFIED DEVELOPMENT CODE.
9. ALL PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED TO ST. LOUIS COUNTY AND THE CITY OF CHESTERFIELD STANDARDS.
10. SIGN APPROVAL IS A SEPARATE PROCESS.
11. NO GRADE SHALL EXCEED 3 TO 1.
12. STORM WATER SHALL BE DISCHARGED AS DIRECTED BY THE CITY OF CHESTERFIELD. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS.
13. INSTALLATION OF LANDSCAPING AND ORNAMENTAL ENTRANCE MONUMENT OR IDENTIFICATION SIGNAGE CONSTRUCTION SHALL BE REVIEWED BY THE CITY OF CHESTERFIELD AND ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC FOR SIGHT DISTANCE CONSIDERATION AND APPROVED PRIOR TO INSTALLATION OR CONSTRUCTION.
14. THE DEVELOPER IS ADVISED THAT UTILITY COMPANIES WILL REQUIRE COMPENSATION FOR RELOCATION OF THEIR FACILITIES WITHIN PUBLIC RIGHT-OF-WAY. UTILITY RELOCATION COST SHALL NOT BE CONSIDERED AS AN ALLOWABLE CREDIT AGAINST THE PETITIONER'S TRAFFIC GENERATION ASSESSMENT CONTRIBUTIONS. THE DEVELOPER SHOULD ALSO BE AWARE OF EXTENSIVE DELAYS IN UTILITY COMPANY RELOCATION AND ADJUSTMENTS. SUCH DELAYS WILL NOT CONSTITUTE A CAUSE TO ALLOW OCCUPANCY PRIOR TO COMPLETION OF ROAD IMPROVEMENTS.
15. ALL UTILITIES SHALL BE INSTALLED UNDERGROUND.
16. SITE DEVELOPMENT SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS AS OUTLINED IN THE "REVISED PRELIMINARY GEOTECHNICAL EXPLORATION" PREPARED BY MIDWEST TESTING (MT JOB NO. 14938), DATED APRIL 7, 2020.
17. ALL ABOVE GROUND UTILITY FACILITIES TALLER THAN TWO (2) FEET IN HEIGHT OR COVERING IN EXCESS OF FOUR (4) SQUARE FEET IN SIZE SHALL BE SCREENED FROM PUBLIC VIEW. IF SCREENING IS COMPLETED BY LANDSCAPE MATERIAL, A LANDSCAPE PLAN IDENTIFYING THE SIZE, LOCATION AND SPECIES SHALL BE SUBMITTED AND APPROVED BY THE CITY PRIOR TO INSTALLATION OF ANY FACILITY.
18. THE PROJECT'S REQUIRED TRAFFIC GENERATION ASSESSMENT SHALL BE DEPOSITED WITH THE CITY OF CHESTERFIELD PRIOR TO THE ISSUANCE OF ANY BUILDING PERMIT/MZA FOR THIS PROJECT.



BUILDING PLACEMENT

PER STREETSCAPE EXHIBIT 1 OF ORD. 3161
NORTH (WILDHORSE CREEK ROAD): VARIABLE WIDTH LANDSCAPE BUFFER THAT IS A MINIMUM OF 60.0' IN WIDTH FOR AT LEAST 60% OF THE FRONTAGE BUT AT NO POINT GOES BELOW THE REQUIRED 15' LANDSCAPE BUFFER AND 0'-30' BUILD TO LINE
EAST (CONNECTOR STREET): 10' SIDEWALK & 0'-200' BUILD TO LINE
SOUTH (WILDHORSE LAKE BLVD): 10' SIDEWALK & 0'-15' BUILD TO LINE

SPACE BETWEEN BUILDINGS: ATTACHED OR 6'-125' IF DETACHED

NOTE: STRUCTURES MAY BE CONSTRUCTED UP TO THE LOT LINES

BUILDING VOLUME

PER ORD. 3161
MAXIMUM HEIGHT: 3 STORIES OR 46.0'
PR. TOWNHOMES HEIGHT OF 35.0'

PARKING:

PER CITY OF CHESTERFIELD UDC SEC.405.04.040(D)(11) RESIDENTIAL USES – DWELLING, MULTIPLE-FAMILY
MIN. REQUIRED: 1.75 SPACES FOR EVERY DWELLING – (70 UNITS)x(1.75 SPACES/UNIT) = 123 SPACES
MAX. REQUIRED: NONE

PROVIDED: (70 UNIT x 2 SPACES/GARAGE) + 12 OFF-STREET = 152 SPACES
PROVIDED PARKING DIMENSIONS: 90° PARKING 9'x19'

LANDSCAPE BUFFER CALC:

60' LANDSCAPE BUFFER CALCULATIONS: MIN. 60% OF FRONTAGE PER ORD. 3161

TOTAL LENGTH ALONG BUFFER ACROSS 2A-1 & 2A-2 = 1042.0'
MIN. REQ. TO MAINTAIN: 625.20' OR 60.0%

2A-1 :
TOTAL LENGTH ALONG BUFFER = 518'
LENGTH OF MAINTAINED 60' BUFFER =391'

2A-2 :
TOTAL LENGTH ALONG BUFFER = 524'
LENGTH OF MAINTAINED 60' BUFFER =289'

TOTAL MAINTAINED LENGTH = 391'+289' = 680.0' / 1042.0' = 65.26%

STREET FACADE CALCULATION AT BUILD-TO-LINE

PER ORD. 3161 – CONSTRUCT AT LEAST 65.0% OF THE STREET FACADE TO THE BUILD-TO-LINE
WILDHORSE LAKE BLVD:
TOTAL LENGTH ALONG BUILD-TO-LINE = 431.48'
LENGTH MAINTAINED ALONG BUILD-TO-LINE = 306.18' OR 70.96% > 65.0% O.K.

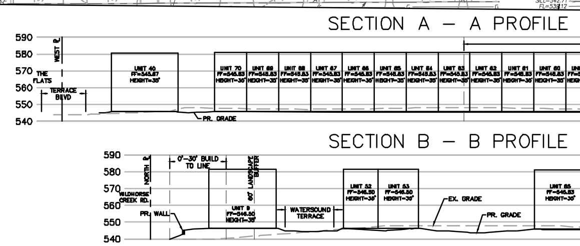
OPENSPACE

TOTAL SITE: 156,680 S.F. (100.00%)
BUILDINGS: 52,784 S.F. (33.69%)
VEHICULAR PAVEMENT: 36,777 S.F. (23.47%)
OPEN SPACE = 67,119 S.F. (42.84%)

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

SECTION A – A PROFILE

SECTION B – B PROFILE



SECTIONS

SCALE: HORZ:1"=30'
VERT:1"=30'

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 PLAN FOR: (ORD. NO 3161)

WILDHORSE TOWNHOMES - LOT 2A-2 (PB 369, PG. 579-586)

360 WILDHORSE LAKE BLVD
CHESTERFIELD, MO 63005

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

05/26/2022

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

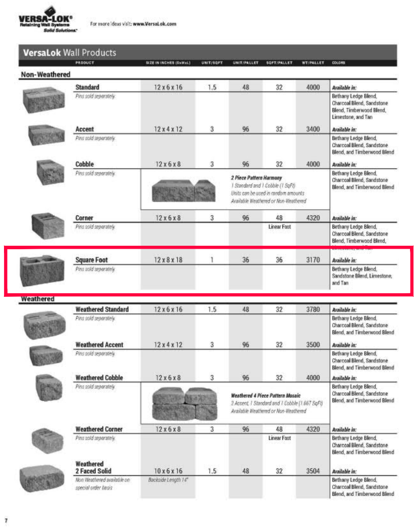
REVISIONS:

1. 04/11/22 SDSP TO CITY
2. 05/26/22 SDSP TO CITY

DRAWN BY: K.S.G.	CHECKED BY: G.M.S.
DATE: 02/21/2022	JOB NO: 201-7056
M.S.D. P #: 22MSD-	BASE MAP #: 18T
S.L.C. H&T #: –	H&T S.U.P. #: –
M.D.N.R. #: MORA20374	

SHEET TITLE: SITE DEVELOPMENT SECTION PLAN

SHEET NO.: C1.0



VERSA-LOK® Retaining Wall Systems *Solid Solutions*™ — For more ideas visit: www.VersaLok.com

VersaLok Wall Products

PRODUCT	SIZE IN INCHES (DxHxL)	UNIT/SQFT	UNIT/PALLET	SQFT/PALLET	WT/PALLET	COLORS
Non-Weathered						
Standard *Pins sold separately.*	12 x 6 x 16	1.5	48	32	4000	*Available in:* Bethany Ledge Blend, Charcoal Blend, Sandstone Blend, Timberwood Blend, Limestone, and Tan
Accent *Pins sold separately.*	12 x 4 x 12	3	96	32	3400	*Available in:* Bethany Ledge Blend, Charcoal Blend, Sandstone Blend, and Timberwood Blend
Cobble *Pins sold separately.*	12 x 6 x 8	3	96	32	4000	*Available in:* Bethany Ledge Blend, Charcoal Blend, Sandstone Blend, and Timberwood Blend
	2 Piece Pattern Harmony *1 Standard and 1 Cobble (1 SqFt) Units can be used in random amounts Available Weathered or Non-Weathered*					
Corner *Pins sold separately.*	12 x 6 x 8	3	96	48 Linear Foot	4320	*Available in:* Bethany Ledge Blend, Charcoal Blend, Sandstone Blend, Timberwood Blend, Limestone, and Tan
Square Foot *Pins sold separately.*	12 x 8 x 18	1	36	36	3170	*Available in:* Bethany Ledge Blend, Sandstone Blend, Limestone, and Tan
Weathered						
Weathered Standard *Pins sold separately.*	12 x 6 x 16	1.5	48	32	3780	*Available in:* Bethany Ledge Blend, Charcoal Blend, Sandstone Blend, and Timberwood Blend
Weathered Accent *Pins sold separately.*	12 x 4 x 12	3	96	32	3500	*Available in:* Bethany Ledge Blend, Charcoal Blend, Sandstone Blend, and Timberwood Blend
Weathered Cobble *Pins sold separately.*	12 x 6 x 8	3	96	32	4000	*Available in:* Bethany Ledge Blend, Charcoal Blend, Sandstone Blend, and Timberwood Blend
	Weathered 4 Piece Pattern Mosaic *2 Accent, 1 Standard and 1 Cobble (1.667 SqFt) Available Weathered or Non-Weathered*					
Weathered Corner *Pins sold separately.*	12 x 6 x 8	3	96	48 Linear Foot	4320	*Available in:* Bethany Ledge Blend, Charcoal Blend, Sandstone Blend, and Timberwood Blend
Weathered 2 Faced Solid *Non Weathered available on special order basis*	10 x 6 x 16 *Backside Length 14"*	1.5	48	32	3504	*Available in:* Bethany Ledge Blend, Charcoal Blend, Sandstone Blend, and Timberwood Blend

7

WALL DETAIL

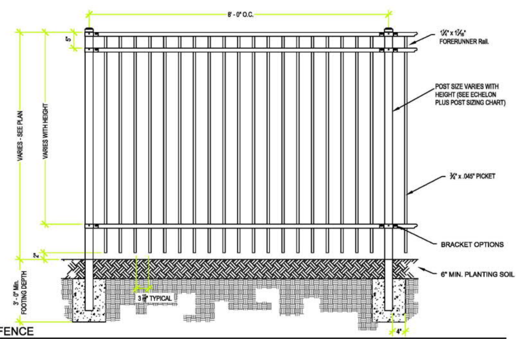
PRODUCT INFORMATION:

1. AMERISTAR ECHELON PLUS ORNAMENTAL ALUMINUM FENCE, MAJESTIC STYLE
2. ECHELON PLUS MAJESTIC 2/3 RAIL PANEL
3. STANARD BOTTOM
4. BLACK IN COLOR
5. 3'-6" HEIGHT

NOTES:

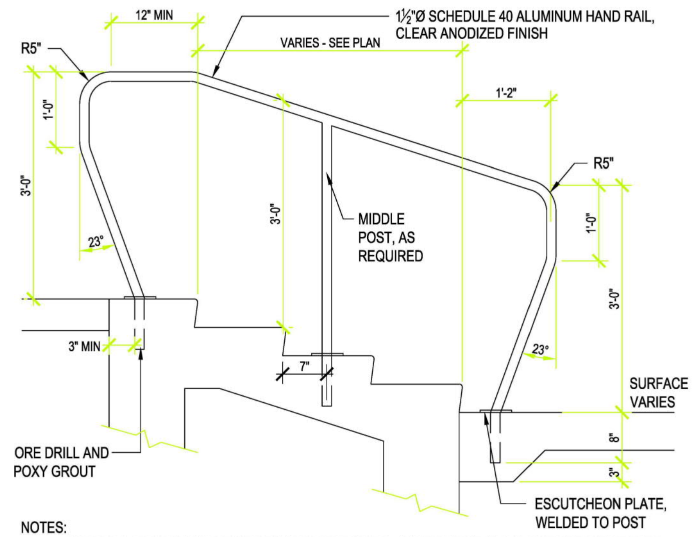
1. SEE ECHELON PLUS POST SIZING CHART.

MANUFACTURER:
Ameristar Fence Products
979 Portwest Drive, Suite 101
St. Charles, MO 63303
region2fax@ameristarfence.com
888-333-3422



ORNAMENTAL ALUMINUM FENCE
3/4" = 1'-0"

FENCE DETAIL



NOTES:

1. HAND RAIL DRAWINGS DEPICT DESIGN INTENT ONLY. CONTRACTOR SHALL SUBMIT ENGINEERED SHOP DRAWINGS THAT ENSURE SAFE AND SECURE INSTALLATION.
2. ALL HAND RAILS SHALL MEET ADA ACCESSIBILITY GUIDELINES, CURRENT EDITION.

HAND RAIL (TYP.)
3/4" = 1'-0"

HAND RAIL DETAIL

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 PLAN FOR: (ORD. NO 3161)

WILDHORSE TOWNHOMES - LOT 2A-2 (PB 369, PG. 579-586)

360 WILDHORSE LAKE BLVD
CHESTERFIELD, MO 63005

05/26/2022

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

REVISIONS:

1.	04/11/22 SDSP TO CITY
2.	05/26/22 SDSP TO CITY

DRAWN BY: K.S.G.	CHECKED BY: G.M.S.
DATE: 02/21/2022	JOB NO: 201-7058
M.S.D. P #: 22MSD-	BASE MAP #: 18T
S.L.C. H&T #: –	H&T S.U.P. #: –
M.D.N.R. #: MORA20374	
SHEET TITLE: SITE DEVELOPMENT SECTION PLAN - DETAILS	
SHEET NO.: C2.0	

2 A03 OVERALL NORTH ELEVATION
1/16" = 1'-0"

3 A03 OVERALL SOUTH ELEVATION
1/16" = 1'-0"

1 A03 OVERALL WEST ELEVATION
1/16" = 1'-0"

4 A03 OVERALL EAST ELEVATION
1/16" = 1'-0"

PIER PROPERTY GROUP

PIER PROPERTY GROUP
WILDHORSE TOWNHOMES

LOT 2A-2
360 WILDHORSE LAKE BLVD
CHESTERFIELD, MO 63005

ARCTURIS
701 MARKET STREET, SUITE 1300
SAINT LOUIS, MO 63101
314.206.7100

ARCHITECT OF RECORD:
MISSOURI STATE CERTIFICATE OF AUTHORITY #00245198

PRELIMINARY
NOT FOR CONSTRUCTION

MICHAEL J. RATLIFF
MO 45655

ISSUE	DESCRIPTION
03/15/22	SDSP SUBMITTAL
04/11/22	SDSP RE-SUBMITTAL
05/20/22	TRUSS/MEP PRICING

Revision Schedule

No.	Date	Description

Key Plan:

Project Number: 21-3191.00

Sheet
SHEET A03 - OVERALL ELEVATIONS

A03

1 A04 BLDGS A, B - NORTH ELEV -- BLDG H - SOUTH ELEV
1/16" = 1'-0"

2 A04 BLDGS A, B - SOUTH ELEV -- BLDG H - NORTH ELEV
1/16" = 1'-0"

3 A04 BUILDING C - NORTH ELEVATION
1/16" = 1'-0"

4 A04 BUILDING C - SOUTH ELEVATION
1/16" = 1'-0"

5 A04 BUILDING D - WEST ELEVATION
1/16" = 1'-0"

6 A04 BUILDNG D - EAST ELEVATION
1/16" = 1'-0"

7 A04 BUILDING F - NORTH ELEVATION
1/16" = 1'-0"

8 A04 BUILDING F - SOUTH ELEVATION
1/16" = 1'-0"

9 A04 BUILDING E - NORTH ELEVATION
1/16" = 1'-0"

10 A04 BUILDING E - SOUTH ELEVATION
1/16" = 1'-0"

11 A04 BUILDING G - EAST ELEVATION
1/16" = 1'-0"

12 A04 BUILDING G - WEST ELEVATION
1/16" = 1'-0"

13 A04 BUILDING I - NORTH ELEVATION
1/16" = 1'-0"

14 A04 BUILDING I - SOUTH ELEVATION
1/16" = 1'-0"

16 A04 BUILDING J - NORTH ELEVATION
1/16" = 1'-0"

17 A04 BUILDING J - SOUTH ELEVATION
1/16" = 1'-0"

PIER PROPERTY GROUP

PIER PROPERTY GROUP
WILDHORSE TOWNHOMES

LOT 2A-2
360 WILDHORSE LAKE BLVD
CHESTERFIELD, MO 63005

ARCTURIS
701 MARKET STREET, SUITE 1300
SAINT LOUIS, MO 63101
314.206.7100

ARCHITECT OF RECORD:
MISSOURI STATE CERTIFICATE OF AUTHORITY #00245198

PRELIMINARY
NOT FOR CONSTRUCTION

MICHAEL J. RATLIFF
MO #[illegible]

ISSUE	DESCRIPTION
03/15/22	SDSP SUBMITTAL
04/11/22	SDSP RE-SUBMITTAL
05/20/22	TRUSS/MEP PRICING

Revision Schedule

No.	Date	Description

Key Plan

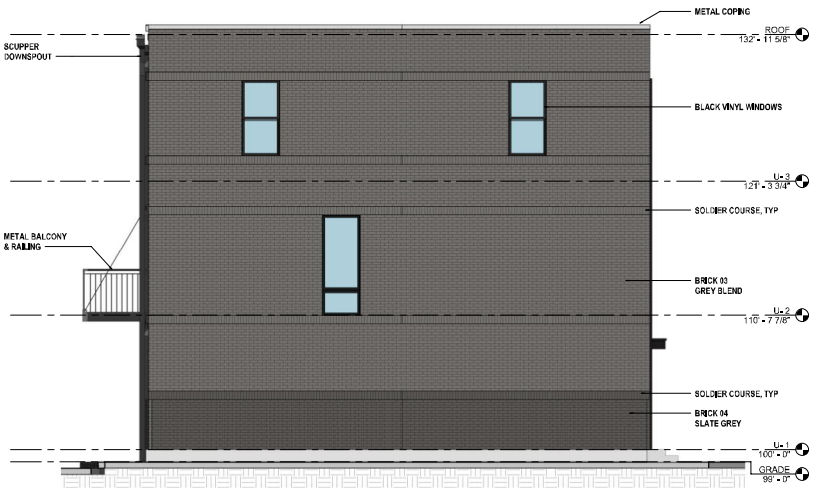
Project Number	21-3191.00

Sheet
SHEET A04 - BUILDING ELEVATIONS

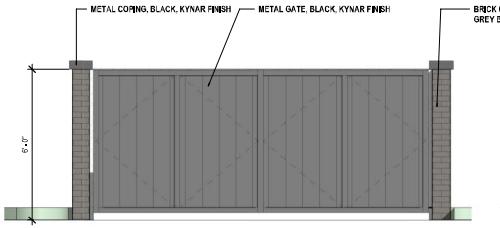
A04

1 A05 TYPICAL TOWNHOME ELEVATION - BACK
1/4" = 1'-0"

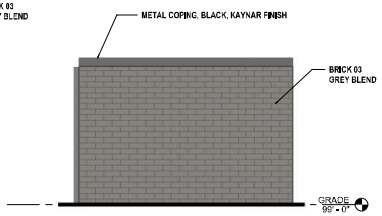
2 A05 TYPICAL TOWNHOME ELEVATION - FRONT
1/4" = 1'-0"



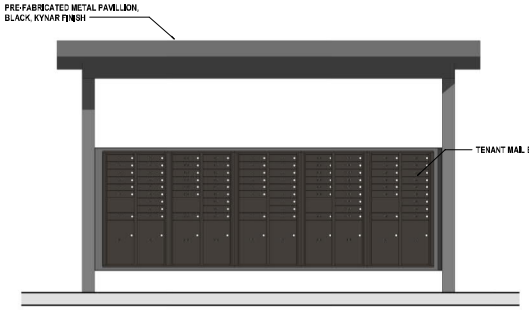
3 A05 TYPICAL BUILDING - SIDE
1/4" = 1'-0"



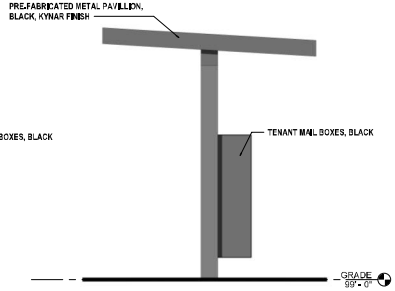
4 A05 FRONT ELEVATION - TRASH ENCLOSURE
1/2" = 1'-0"



5 A05 SIDE ELEVATION- TRASH ENCLOSURE
1/2" = 1'-0"



6 A05 ELEVATION - MAIL PAVILION
1/2" = 1'-0"



7 A05 SIDE ELEVATION - MAIL PAVILION
1/2" = 1'-0"

PIER PROPERTY GROUP

PIER PROPERTY GROUP
WILDHORSE TOWNHOMES
LOT 2A-2
360 WILDHORSE LAKE BLVD
CHESTERFIELD, MO 63005

ARCTURIS
701 MARKET STREET, SUITE 1300
SAINT LOUIS, MO 63101
314.206.7100

ARCHITECT OF RECORD

PRELIMINARY
NOT FOR CONSTRUCTION

ISSUE	DESCRIPTION
03/15/22	SDSP SUBMITTAL
04/11/22	SDSP RE-SUBMITTAL
05/20/22	TRUSS/MEP PRICING

Revision Schedule

No.	Date	Description

Key Plan:

Project Number: 21-3191.00

Sheet
SHEET A05 - BUILDING ELEVATIONS

A05

PLANTING SCHEDULE

SYMBOL	QUANTITY	BOTANICAL NAME	CULTIVAR	COMMON NAME	SIZE/CALIPER	METHOD	MATURE HEIGHT	GROWTH RATE
Shade Tree - 42.9%								
AF - 7.9%	5	Acer freemanii	'Armstrong'	Freeman Maple	2.5" Caliper	B&B		MEDIUM
AS - 7.9%	5	Acer saccharum	Green Mountain	Sugar Maple	2.5" Caliper	B&B		FAST
PA - 9.5%	6	Platanus x acerifolia	'Morton's Circle'	London Planetree	2.5" Caliper	B&B		FAST
QB - 7.9%	5	Quercus bicolor		Swamp White Oak	2.5" Caliper	B&B	50' - 0"	MEDIUM
ZS - 9.5%	6	Zelkova serrata	'Green Vase'	Green Vase Zelkova	2.5" Caliper	B&B	45' - 0"	FAST
Ornamental Tree - 22.2%								
BN - 14.3%	9	Betula nigra		River Birch	2.5" Caliper	B&B	35' - 0"	MEDIUM
CR - 7.9%	5	Cornus Constellation	'Rutcan'	Dogwood	2.5" Caliper	B&B	35' - 0"	MEDIUM
Evergreen Tree - 34.9%								
JC - 19%	12	Juniperus chinensis	'Hetzii Columnaris'	Green Columnar Juniper	6' Ht.	B&B	40' - 0"	SLOW
TP - 15.9%	10	Thuja plicata	Green Sport Western Red Cedar	'Green Sport'	8' Ht	B&B	40' - 0"	FAST

GROWTH RATES

SLOW	11.1%
MEDIUM	44.4%
FAST	44.4%

Planting Beds

MIX 01	Cornus sericea	Red Osier Dogwood		36" o.c.
	Taxus x media	Yew	'Everlow'	36" o.c.
	Carex grayi	Gray Sedge		30" o.c.
	Rhus aromatic	Gro-Low Sumac		24" o.c.
	Athyrium filix-femina	Lady Fern	'Encourage'	24" o.c.
	Rudbeckia hirta	Black-eyed Susan		24" o.c.
MIX 02	Thuja occidentalis	Holmstrup Eastern Arborvitae	'Holmstrup'	54" o.c.
	Itea virginica	Virginia Sweetspire	'Henry's Garnet'	36" o.c.
	Panicum virgatum	Switchgrass	'Northwind'	30" o.c.
	Rhus aromatic	Gro-Low Sumac		24" o.c.
	Amsonia hubrichiti	Arkansas Blue Star		24" o.c.
	Hydrangea paniculata	Panicle Hydrangea	'Little Lime'	24" o.c.
MIX 03	Aronia melanocarpa	Chokeberry	'Iroquois Beauty'	48" o.c.
	Hydrangea arborescens	Smooth Hydrangea	'Annabelle'	60" o.c.
	Panicum virgatum	Switchgrass	'Northwind'	30" o.c.

Lawn Turf

	Lebanon Turf	Winning Colors Tall Fescue Blend

Decorative Rock

	Mexican Beach Pebbles	Sizes ranging from 1/2" - 4"

LANDSCAPE NOTES:

1. ALL WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES.
2. LOCATE AND FLAG ALL UNDERGROUND UTILITIES PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL PROTECT EXISTING OVERHEAD AND UNDERGROUND UTILITIES. ANY DAMAGE TO SUCH SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
3. PLANTS AND OTHER MATERIALS ARE QUANTIFIED AND SUMMARIZED FOR THE CONVENIENCE OF THE CITY AND LOCAL GOVERNING BODIES. CONFIRM AND INSTALL SUFFICIENT QUANTITIES TO COMPLETE THE WORK AS DRAWN.
4. PLAN IS SUBJECT TO CHANGES BASED ON PLANT SIZE AND MATERIAL AVAILABILITY. ALL CHANGES OR SUBSTITUTIONS MUST BE APPROVED BY THE CITY OF **CHESTERFIELD, MISSOURI** AND THE LANDSCAPE ARCHITECT.
5. ALL PLANT MATERIAL SHALL BE NURSERY GROWN TO MEET MINIMUM SIZE AS SPECIFIED IN THE AMERICAN STANDARD FOR NURSERY STOCK ESTABLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION (ANLA). THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL NOT MEETING SPECIFICATIONS.
6. ALL TREES SHALL BE CALIPERED AND ANY UNDERSIZED TREES SHALL BE REJECTED. SPECIFIED CALIPER MEASUREMENT FOR TREES SHALL BE MEASURED AT 12" ABOVE THE GRADE. TREES TO BE WRAPPED WITH COMMERCIAL GRADE DEERPROOF TRUNK GUARDS.
7. PLANTING OF TREES, SHRUBS, SODDED AND SEEDED TURFGRASS SHALL BE COMMENCED DURING EITHER THE SPRING (MARCH 15-JUNE 15) OR FALL (SEPTEMBER 1 - OCTOBER 15) PLANTING SEASON AND WITH WATER AVAILABLE FOR IRRIGATION PURPOSES.
8. CONTRACTOR SHALL STAKE OR MARK ALL PLANT MATERIAL LOCATIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL HAVE THE LANDSCAPE ARCHITECT APPROVE ALL STAKING PRIOR TO INSTALLATION. FIELD ADJUSTMENTS MAY BE NECESSARY BASED UPON FIELD CONDITIONS (I.E. ROOT BALL AND DROP INLET CONFLICT). ALL ADJUSTMENTS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT.
9. THE LANDSCAPE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND MATERIALS INJURIOUS TO PLANT GROWTH FROM PLANTING PITS AND BEDS PRIOR TO BACKFILLING WITH PLANTING MIX.
10. A PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL SHRUB BEDS PRIOR TO THE INSTALLATION OF ANY PLANT MATERIAL.
11. BACKFILL ALL PLANTING BEDS TO A MINIMUM 12-INCH DEPTH WITH PLANTING SOIL MIX. PLANTING SOIL MIX SHALL CONSIST OF ONE (1) PART PERLITE, ONE (1) PART PEAT MOSS, AND TWO (2) PARTS CLEAN LOAM TOPSOIL. THOROUGHLY MIX PLANTING SOIL COMPONENTS PRIOR TO PLACEMENT.
12. ALL LANDSCAPE PLANTING AREAS, EXCLUDING TURF AREAS SHALL BE MULCHED WITH A MINIMUM OF 3-4" SHREDDED HARDWOOD MULCH UNLESS OTHERWISE NOTED ON PLANS.
13. **STEEL** LANDSCAPE EDGING IS TO BE USED ON ALL LANDSCAPE BEDS ABUTTING SODDED AREAS. STEEL LANDSCAPE EDGING IS TO BE USED BETWEEN DECORATIVE ROCK AND MULCH.
14. ALL LANDSCAPE SHALL BE IRRIGATED WITH A HIGH-EFFICIENCY, AUTOMATIC IRRIGATION SYSTEM ACHIEVING 100% EVEN COVERAGE OF ALL LANDSCAPE AREAS. IRRIGATION SYSTEM SHALL BE DESIGN-BUILD TO MEET ALL CITY REQUIREMENTS.
15. LANDSCAPE CONTRACTOR IS TO BE RESPONSIBLE FOR WATERING ALL PLANT MATERIALS UNTIL THE TIME THE PERMANENT IRRIGATION SYSTEM IS FULLY FUNCTIONAL AND ACCEPTANCE OF THE PROJECT HAS TAKEN PLACE. ANY MATERIAL WHICH DIES OR DEFOLIATES (PRIOR TO ACCEPTANCE OF THE WORK) WILL BE PROMPTLY REMOVED AND REPLACED.
16. CONTRACTOR TO WINTERIZE IRRIGATION SYSTEM IN FIRST YEAR OF OPERATION. OWNER TRAINING TO BE INCLUDED ALONG WITH WINTERIZING PROCEDURES.
17. THE CONTRACTOR WILL COMPLETELY GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR BEGINNING AT THE DATE OF ACCEPTANCE. CONTRACTOR WILL MAKE ALL REPLACEMENTS PROMPTLY (AS PER DIRECTION OF OWNER).

NOT FOR CONSTRUCTION

LANDSCAPE SITE PLAN
1" = 20'-0"

LEGEND

SYMBOL	DESCRIPTION
	CANOPY TREES
	UNDERSTORY TREES
	EVERGREEN TREES
	LAWN TURF
	DECORATIVE ROCK
	PLANTING BED MIX 01
	PLANTING BED MIX 02

STREET TREES

SYM	QTY	%
AF	4	22%
PA	5	26%
QB	5	26%
ZS	5	26%

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

AUBURN PARK
LANDSCAPE ARCHITECTURE

Auburn Park Landscape Architecture
406 Oaktree Crossing Ct.
Ballwin, MO 63021
(636) 891-2125

STATE OF MISSOURI
CHRISTA TAYLOR
NUMBER 2019023088
LANDSCAPE ARCHITECT

Christa Taylor, PLA
Professional Landscape Architect
MO PLA- 2019023088

REVISIONS

NO.	DATE	NOTE	BY

PREPARED FOR:
PIER PROPERTY GROUP
WILDHORSE TOWNHOMES

LOT 2A-2
360 WILDHORSE LAKE BLVD
CHESTERFIELD, MO 63005

SHEET:
LANDSCAPE PLAN

NORTH

Scale: 1"-20'

DATE
05/02/2022

JOB NUMBER:

DRAWN BY: CT

REVIEWED BY:

SHEET:
L-101

Luminaire Schedule								
Symbol	Qty	Label	Arrangement	Description	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
▯	16	BL1	Single	WPX1 LED P1 40K Mvolt	0.900	1568	11.47	183.52
⊙	6	SL2A	Single	ARB-B3-LED-D1-T4	0.900	8740	99	594
⊙	1	SL2B	Single	ARB-B4-LED-D1-T5	0.900	9464	96	96
●	30	SL3	Single	ABB-B1-LED-D1-S	0.900	706	16	480
—□	4	SL1	Single	PRV-C25-D-UNV-T4-BZ	0.900	13140	96	384

Calculation Summary					
Label	CalcType	Units	Avg	Max	Min
Site	Illuminance	Fc	0.74	4.0	0.0
Entry Drive	Illuminance	Fc	0.98	3.4	0.0
Inner Drive	Illuminance	Fc	1.24	4.0	0.1

SL1 LIGHTS ARE A CONTINUATION OF THE ADJACENT POLE LIGHTS TO THE WEST ALONG WILDHORSE CREEK ROAD

NOTES:

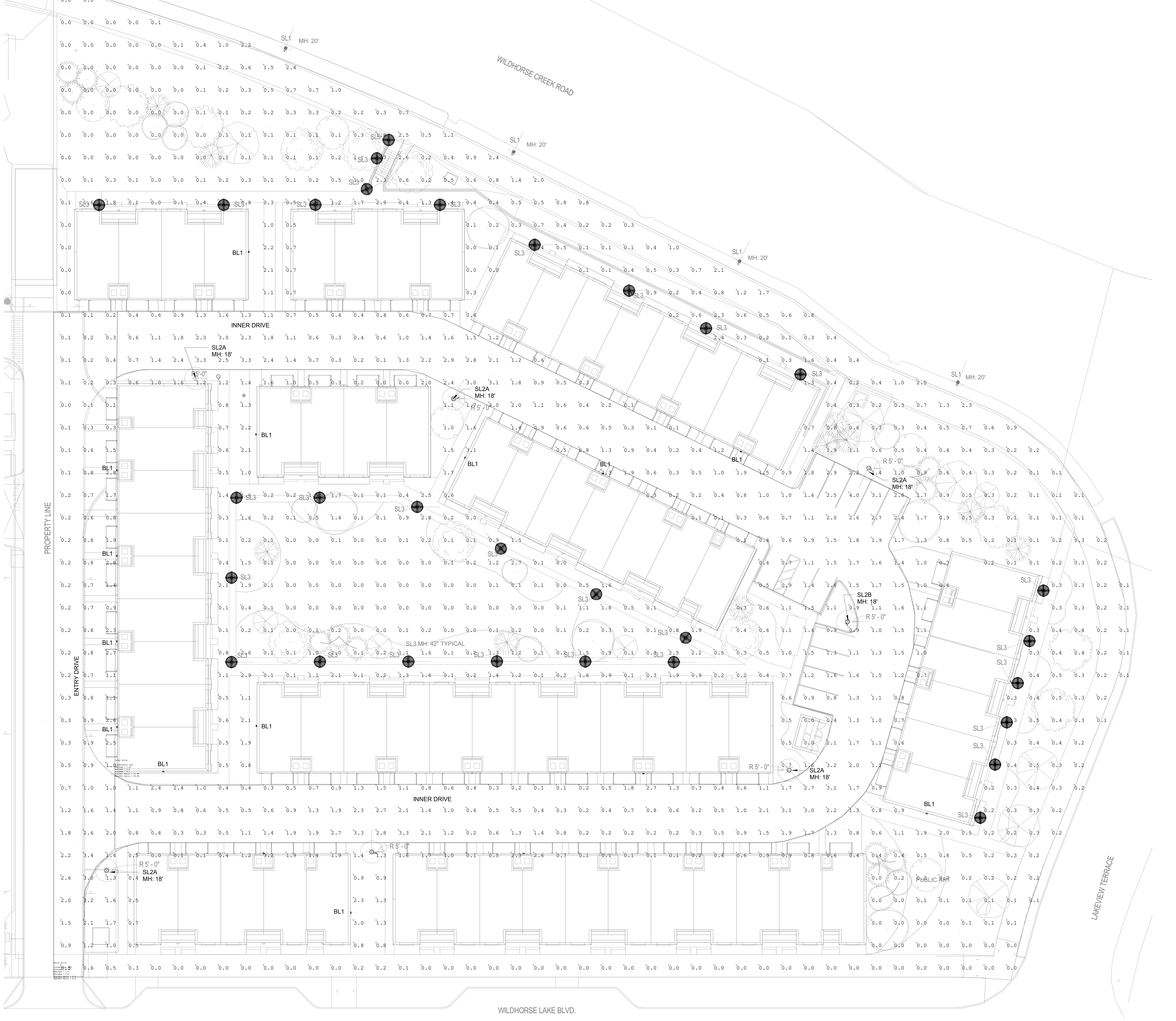
1. CALCULATIONS TAKEN AT GROUND LEVEL
2. LIGHT LOSS FACTOR IS SET AT .9


BL1

SL1


SL2A/B


SL3



1 SL-101 SITE PHOTOMETRIC
1" = 20'-0"

PIER PROPERTY GROUP

PIER PROPERTY GROUP
WILDHORSE TOWNHOMES

LOT 2A-2
360 WILDHORSE LAKE BLVD
CHESTERFIELD, MO 63005

ARCTURIS
701 MARKET STREET, SUITE 1300
SAINT LOUIS, MO 63101
314.206.7100

ARCHITECT OF RECORD:
MISSOURI STATE CERTIFICATE OF AUTHORITY #00246198

PRELIMINARY
NOT FOR CONSTRUCTION

MICHAEL J. RATLIFF
MO #6855

ISSUE	DESCRIPTION
03/15/22	SDSP SUBMITTAL
04/11/22	SDSP RE-SUBMITTAL
05/20/22	TRUSS/MEP PRICING

Revision Schedule

No.	Date	Description

Key Plan:

Project Number: **21-3191.00**

Sheet
SITE LIGHTING PHOTOMETRIC

SL-101

EXTERIOR LIGHT FIXTURE SCHEDULE						
TYPE	DESCRIPTION	MANUFACTURER	MODEL NAME & NUMBER	LUMENS	WATTS	MOUNTING
BL1	WALL MOUNTED FLOOD LIGHT	LITHONIA	WPX2-MVOLT-PE-DBLXD	6,000	47	WALL
BL2	TOWNHOME ENTRY SCONCE WITH FROSTED GLOBE SHADE - WET LOCATION	TROY RLM	GL12-LED1830-VB-2-A12-MB			WALL
SL1	POLE MOUNTED LED HEAD - TO MATCH ADJACENT FIXTURE ALONG WILDHORSE	LUMARK	PRV-C25-D-UNV-T4-BZ	11,790	96	POLE - 20 FT
SL2A	POLE MOUNTED LED WITH ROUND HEAD AND THIN ARM MOUNT - TYPE 4 DISTRIBUTION	INVUE	AR3-B3-LED-D1-T4	8740	96	POLE - 18 FT
SL2B	POLE MOUNTED LED WITH ROUND HEAD AND THIN ARM MOUNT - TYPE 5 DISTRIBUTION	INVUE	AR3-B4-LED-D1-T5	9464	99	POLE - 18 FT
SL3	LIT LED ROUND BOLLARD	INVUE	ABB-B2-42-D1-S	1276	32	GROUND - 42 IN

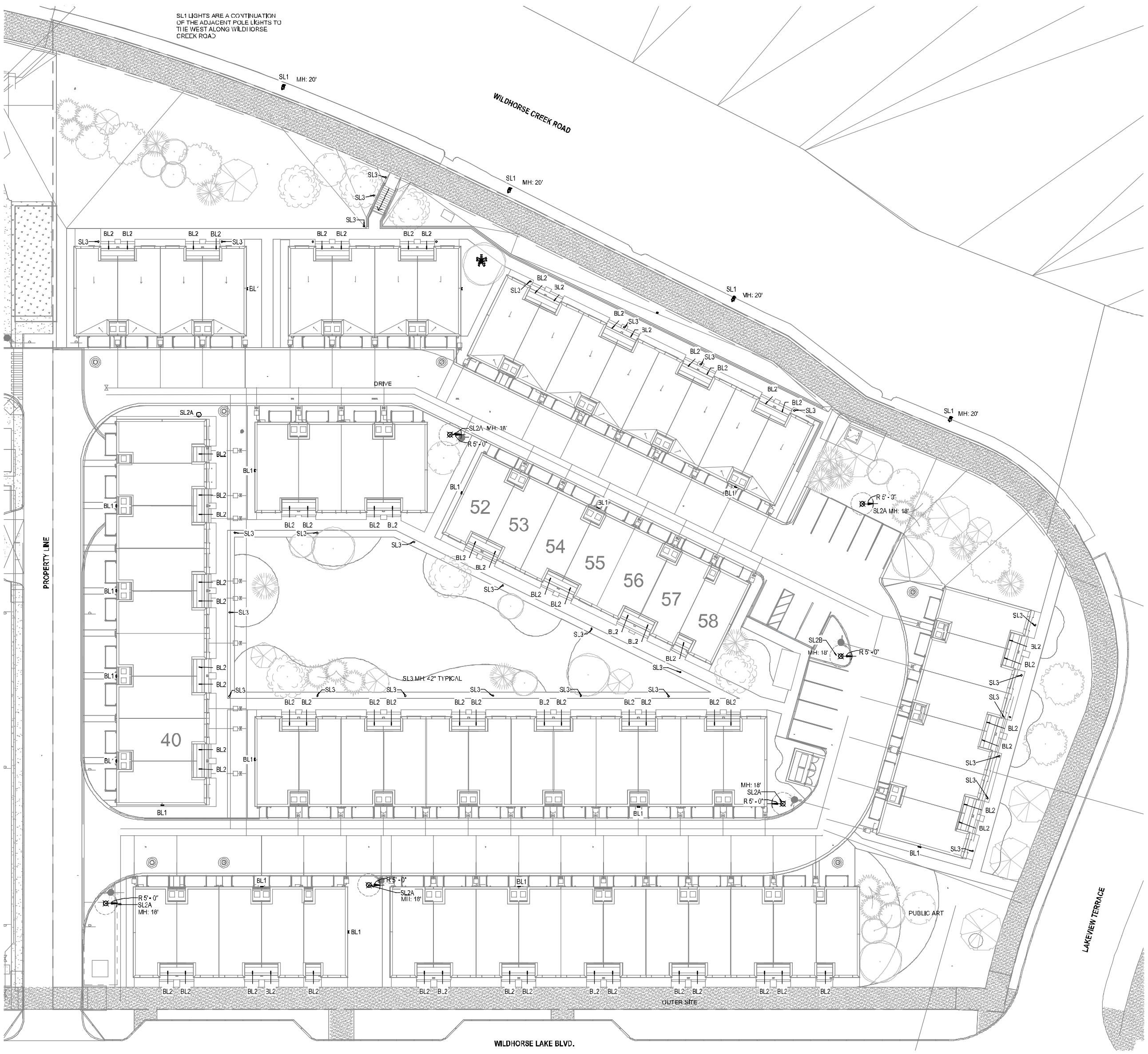
LIGHT FIXTURE TAG LEGEND:

SLx SITE LIGHT FIXTURE

BLx BUILDING MOUNTED LIGHT FIXTURE

NOTES:

1. ALL EXTERIOR LIGHTING TO BE DUSK TO DAWN EXCEPT FOR BL2 WHICH IS SWITCHED INSIDE TOWNHOMES



21 SL-102 SITE LIGHTING PLAN
1" = 20'-0"

PIER PROPERTY GROUP

PIER PROPERTY GROUP
WILDHORSE TOWNHOMES
LOT 2A-2
360 WILDHORSE LAKE BLVD
CHESTERFIELD, MO 63005

ARCTURIS
701 MARKET STREET, SUITE 1300
SAINT LOUIS, MO 63101
314.206.7100

ARCHITECT OF RECORD:
MISSOURI STATE CERTIFICATE OF AUTHORITY #00218196

PRELIMINARY
NOT FOR CONSTRUCTION

MICHAEL J. RATLIFF
MO 45556

ISSUE	DESCRIPTION
03/15/22	SDSP SUBMITTAL
04/11/22	SDSP RE-SUBMITTAL
05/20/22	TRUSS/MEP PRICING

Revision Schedule

No.	Date	Description

Key Plan

Project Number: 21-3191.00

Sheet
SITE LIGHTING PLAN

SL-102

Rendering - Aerial View

Site Plan

BUILDING SUMMARY

01 BUILDING 01
- 4 UNITS
- 9,114 SF

02 BUILDING 02
- 4 UNITS
-9,114 SF

03 BUILDING 03
- 8 UNITS
-18,096 SF

04 BUILDING 04
- 6 UNITS
- 13,605 SF

05 BUILDING 05
- 11 UNITS
- 24,837 SF

06 BUILDING 06
- 5 UNITS
- 11,364 SF

07 BUILDING 7
- 9 UNITS
- 20,345 SF

08 BUILDING 8
- 4 UNITS
- 9,114 SF

09 BUILDING 9
- 7 UNITS
- 15,854 SF

10 BUILDING 10
- 12 UNITS
- 27,079 SF

158,522 Total SF

SITE LEGEND

- **A** MAILBOX & PERGOLA
- **B** TRASH ENCLOSURE
- **C** MSD / UTILITY EASMENT
- **D** 60' LANDSCAPE BUFFER
- **E** 0-15 BUILD-TO LINE
- **F** VIEW CORRIDOR
- **G** PUBLIC ART

Rendering - View Along Wildhorse Lake BLVD

Rendering - Corner of WildHorse Lake BLVD & Lakeview TERR

Rendering - Corner of Wild Horse Creek RD & Lakeview TERR

Rendering - View Along Wild Horse Creek RD

Rendering - Access Road

Rendering - Internal Road View

Rendering - Internal Trash Enclosure & Mail

Rendering - Courtyard

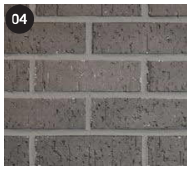
Rendering - Internal Road View

Exterior Building Materials

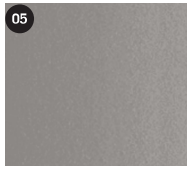
BRICK 01
Manuf: Glen-Gery
Style: Modular
Finish: Revere Pewter

BRICK 02
Manuf: Hebron
Style: Modular
Color: Sea Gray

BRICK 03
Manuf: Endicott
Style: Modular
Color: Grey Blend



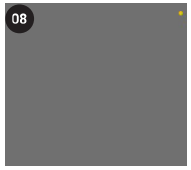
BRICK 04
Manuf: Hebron
Style: Modular
Color: Slate Gray



FIBER CEMENT 01
Manuf: James Hardie
Style: Hardiepanel
Color: Pearl Gray

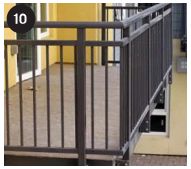
FIBER CEMENT 02
Manuf: James Hardie
Style: Hardie Plank
Color: Gray Slate

METAL SHINGLE 01
Manuf: Atas
Style: Standing Seam
Color: Charcoal Grey



METAL COPING 01
Manuf: Pac-Clad
Style: Flashing & Trim
Color: Charcoal

VINYL WINDOW
Manuf: TBD
Style: Single Hung
Color: Black & White



METAL RAILING
Manuf: ATR
Style: Aluminum Picket
Color: Black

METAL LOUVER SCREEN
Manuf: Custom
Style: Kynar Finish
Color: Black

GARAGE DOOR
Manuf: Doorlink
Style: Long Recessed Panel
Color: White

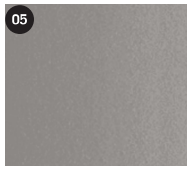
Exterior Building Materials

BRICK 01
Manuf: Glen-Gery
Style: Modular
Finish: Revere Pewter

BRICK 02
Manuf: Hebron
Style: Modular
Color: Sea Gray

BRICK 03
Manuf: Endicott
Style: Modular
Color: Grey Blend

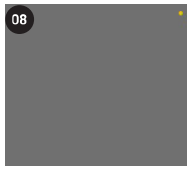
BRICK 04
Manuf: Hebron
Style: Modular
Color: Slate Gray



FIBER CEMENT 01
Manuf: James Hardie
Style: Hardiepanel
Color: Pearl Gray

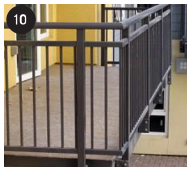
FIBER CEMENT 02
Manuf: James Hardie
Style: Hardie Plank
Color: Gray Slate

METAL SHINGLE 01
Manuf: Atas
Style: Standing Seam
Color: Charcoal Grey



METAL COPING 01
Manuf: Pac-Clad
Style: Flashing & Trim
Color: Charcoal

VINYL WINDOWS & DOORS
Manuf: TBD
Style: Single Hung
Color: Black & White



METAL RAILING
Manuf: ATR
Style: Aluminum Picket
Color: Black

METAL LOUVER SCREEN
Manuf: Custom
Style: Kynar Finish
Color: Black

GARAGE DOOR
Manuf: Doorlink
Style: Long Recessed Panel
Color: White

Architect's Statement

General Requirements for Site Design:

- Site Relationship

The proposed project is part of the larger Wildhorse Village development and as such conforms to and incorporates the site design requirements as outlined in Ordinance 3161. The project is bordered to the north by Wild Horse Creek Road, to the west by The Flats at Wildhorse Village, to the south by Wildhorse Lake Boulevard, and to the east by Lakeview Terrace. Lots to the east, west, and south are also part of the larger Wildhorse Village development. The Townhomes at Wildhorse Village is planned to embrace views of the existing lake to the south and to intentionally tie into the planned streets, sidewalks and trails of Wildhorse Village. Public art is proposed near the corner of Lakeview Terrace and Wildhorse Lake BLVD.

- Circulation System and Access

The site is accessed via one curb-cut shared between lots 2A-1 and 2A-2. All vehicular access will utilize this drive for tenant parking, loading and trash. One internal drive circles through the development, providing vehicular access and fire apparatus access. Internal pedestrian sidewalks and paths connect to the large pedestrian paths of the Wildhorse Village development.

- Topography

The site slopes from a high point at the southwest corner property line towards the northeast, falling approximately 10 feet.

- Retaining Walls

Due to the topography of the site, the prosed development utilizes retaining walls at the northwest corner of the site. The walls are designed to be minimal in appearance with heights ranging between 3-5 feet. Extensive landscaping will help obscure the walls from Wild Horse Creek Road. The retaining walls will be constructed of modular masonry.

General Requirements for Building Design:

- Scale

This development has been designed in concert with the density and urban aspirations of the Wildhorse Village master plan. The buildings utilize an articulation pattern of voids and recesses with unifying roof elements to create a rhythm of "corners and edges." This strategy is a similar approached used for The Flats of Wildhorse Village. Façade elements like the full, 3-story projections provides a strong vertical presence and reinforces the notion of "townhouse". Finally, the buildings step back at the 3rd floor to breakdown the vertical scale of the building while also provide interesting visual relief and architectural continuity.

- Design

The architecture intends to instill the same feeling of quality and sophistication of The Flats at Wildhorse Village: clean, modern aesthetics with hints of classical forms and organization. Projecting building elements and setbacks provide visual interest and help inform the street edge. The subtle sloped roof forms at the 3rd floor insets also play on expectations of modern and classical design. Programmatically, the development utilizes one point of entry to help localize and isolate servicing. The trash enclosure and garage entries are located off the internal drive and are concealed from public view. Overall, the buildings are strong yet subdued, aging well over time and providing a fitting backdrop to the urban fabric.

- Materials and Color

The main building materials will be brick, vision glass, gray metal shingles, gray fiber cement panels and fiber cement lap siding. Black vinyl doors and windows with Low E glazing will be used at all residential units. The warm color palette browns and grays is intended to harmonize with the neighboring Flats at Wildhorse Village and to feel calming and inviting.

- Landscape Design, Screening and Fencing

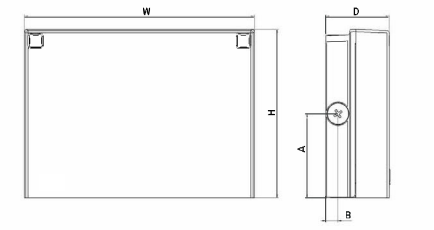
The development incorporates a comprehensive landscape design package intended to enhance natural features, views, as well as integrate into the Wildhorse Village master landscape plan. Where possible, site utilities will be screened by plantings. At decorative metal railing provides fall protection along the sidewalk near the retaining walls. This railing will match the railing for the dog run at The Flats of Wildhorse Village.

WPX LED
Wall Packs

TYPE BL1
WILDHORSE TOWNHOMES
LOT 2A-2

BL1

Specifications



Front View Side View

Luminaire	Height (H)	Width (W)	Depth (D)	Side Conduit Location		Weight
				A	B	
WPX1	8.1" (20.6 cm)	11.1" (28.3 cm)	3.2" (8.1 cm)	4.0" (10.3 cm)	0.6" (1.6 cm)	6.1 lbs (2.8kg)
WPX2	9.1" (23.1 cm)	12.3" (31.1 cm)	4.1" (10.5 cm)	4.5" (11.5 cm)	0.7" (1.7 cm)	8.2 lbs (3.7kg)
WPX3	9.5" (24.1 cm)	13.0" (33.0 cm)	5.5" (13.7 cm)	4.7" (12.0 cm)	0.7" (1.7 cm)	11.0 lbs (5.0kg)

Introduction

The WPX LED wall packs are energy-efficient, cost-effective, and aesthetically appealing solutions for both HID wall pack replacement and new construction opportunities. Available in three sizes, the WPX family delivers 1,550 to 9,200 lumens with a wide, uniform distribution.

The WPX full cut-off solutions fully cover the footprint of the HID glass wall packs that they replace, providing a neat installation and an upgraded appearance. Reliable IP66 construction and excellent LED lumen maintenance ensure a long service life. Photocell and emergency egress battery options make WPX ideal for every wall mounted lighting application.

Ordering Information

EXAMPLE: WPX2 LED 40K MVOLT DDBXD

WPX2	TBD	MVOLT	PE	DBLXD
Series	**Color Temperature**	**Voltage**	**Options**	**Finish**
WPX1 LED P1 1,550 Lumens, 11W[1]	30K 3000K	MVOLT 120V - 277V	(blank) None	DDBXD Dark bronze
WPX1 LED P2 2,900 Lumens, 24W	40K 4000K	347 347V[3]	E4WH Emergency battery backup, CEC compliant (4W, 0°C min)[2]	DWHXD White
WPX2 LED 6,000 Lumens, 47W	50K 5000K		E14WC Emergency battery backup, CEC compliant (14W, -20°C min)[2]	DBLXD Black
WPX3 LED 9,200 Lumens, 69W			PE Photocell[3]	Note : For other options, consult factory.

Note: The lumen output and input power shown in the ordering tree are average representations of all configuration options. Specific values are available on request.

NOTES
1. All WPX wall packs come with 6kV surge protection standard, except WPX1 LED P1 package which comes with 2.5kV surge protection standard. Add SPD6KV option to get WPX1 LED P1 with 6kV surge protection.
   Sample nomenclature: WPX1 LED P1 40K MVOLT SPD6KV DDBXD
2. Battery pack options only available on WPX1 and WPX2.
3. Battery pack options not available with 347V and PE options.

FEATURES & SPECIFICATIONS

INTENDED USE
The WPX LED wall packs are designed to provide a cost-effective, energy-efficient solution for the one-for-one replacement of existing HID wall packs. The WPX1, WPX2 and WPX3 are ideal for replacing up to 150W, 250W, and 400W HID luminaires respectively. WPX luminaires deliver a uniform, wide distribution. WPX is rated for -40°C to 40°C.

CONSTRUCTION
WPX feature a die-cast aluminum main body with optimal thermal management that both enhances LED efficacy and extends component life. The luminaires are IP66 rated, and sealed against moisture or environmental contaminants.

ELECTRICAL
Light engine(s) configurations consist of high-efficacy LEDs and LED lumen maintenance of L90/100,000 hours. Color temperature (CCT) options of 3000K, 4000K and 5000K with minimum CRI of 70. Electronic drivers ensure system power factor >90% and THD <20%. All luminaires have 6kV surge protection (Note: WPX1 LED P1 package comes with a standard surge protection rating of 2.5kV. It can be ordered with an optional 6kV surge protection).
All photocell (PE) operate on MVOLT (120V - 277V) input.

Note: The standard WPX LED wall pack luminaires come with field-adjustable drive current feature. This feature allows tuning the output current of the LED drivers to adjust the lumen output (to dim the luminaire).

INSTALLATION
WPX can be mounted directly over a standard electrical junction box. Three 1/2 inch conduit ports on three sides allow for surface conduit wiring. A port on the back surface allows poke-through conduit wiring on surfaces that don't have an electrical junction box. Wiring can be made in the integral wiring compartment in all cases. WPX is only recommended for installations with LEDs facing downwards.

LISTINGS
CSA Certified to meet U.S. and Canadian standards. Suitable for wet locations. IP66 Rated. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C. Specifications subject to change without notice.

Performance Data

Electrical Load

Luminaire	Input Power (W)	120V	208V	240V	277V	347V
WPX1 LED P1	11W	0.09	0.05	0.05	0.04	0.03
WPX1 LED P2	24W	0.20	0.12	0.10	0.09	0.07
WPX2	47W	0.39	0.23	0.20	0.17	0.14
WPX3	69W	0.58	0.33	0.29	0.25	0.20

Projected LED Lumen Maintenance

Data references the extrapolated performance projections in a 25°C ambient, based on 6,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	50,000	75,000	100,000
Lumen Maintenance Factor	>0.94	>0.92	>0.90

HID Replacement Guide

Luminaire	Equivalent HID Lamp	WPX Input Power
WPX1 LED P1	100W	11W
WPX1 LED P2	150W	24W
WPX2	250W	47W
WPX3	400W	69W

Lumen Output

Luminaire	Color Temperature	Lumen Output
WPX1 LED P1	3000K	1,537
	4000K	1,568
	5000K	1,602
WPX1 LED P2	3000K	2,748
	4000K	2,912
	5000K	2,954
WPX2	3000K	5,719
	4000K	5,896
	5000K	6,201
WPX3	3000K	8,984
	4000K	9,269
	5000K	9,393

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

Ambient	Ambient	Lumen Multiplier
0°C	32°F	1.05
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Emergency Egress Battery Packs

The emergency battery backup is integral to the luminaire — no external housing or back box is required. The emergency battery will power the luminaire for a minimum duration of 90 minutes and deliver minimum initial output of 550 lumens. Both battery pack options are CEC compliant.

Battery Type	Minimum Temperature Rating	Power (Watts)	Controls Option	Ordering Example
Standard	0°C	4W	E4WH	WPX2 LED 40K MVOLT **E4WH** DDBXD
Cold Weather	-20°C	14W	E14WC	WPX2 LED 40K MVOLT **E14WC** DDBXD

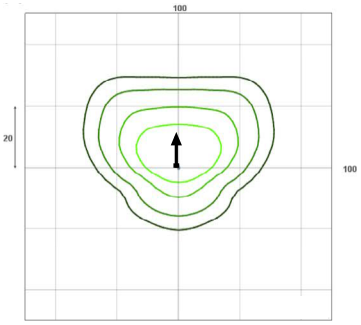
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WPX LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards

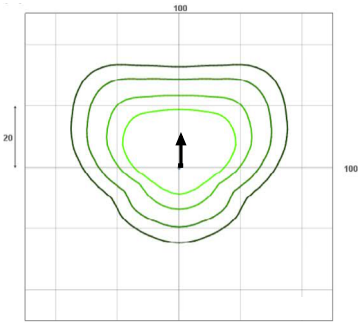
LEGEND

- 0.1 fc
- 0.2 fc
- 0.5 fc
- 1.0 fc

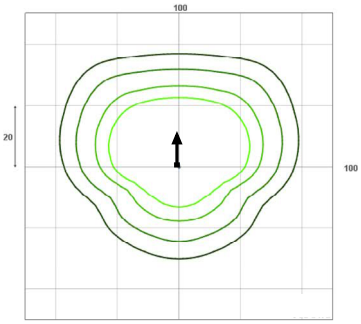
WPX1 LED P1



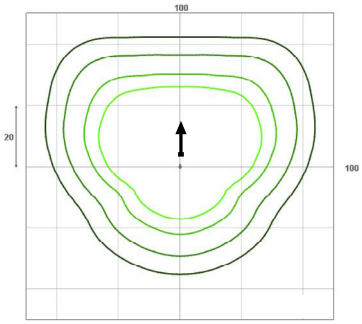
WPX1 LED P2



WPX2 LED



WPX3 LED



Mounting Height = 12 Feet.

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com

Project		**Catalog #**	
Prepared by		**Notes**	

TYPE SL1 HEAD
WILDHORSE TOWNHOMES
LOT 2A-2

TO MATCH ADJACENT HEAD

Lumark

Prevail LED

Area / Site Luminaire

Product Features

LumenSafe Technology

Interactive Menu

- Ordering Information page 2
- Mounting Details page 3
- Optical Configurations page 4
- Product Specifications page 4
- Energy and Performance Data page 5
- Control Options page 6

Product Certifications

Quick Facts

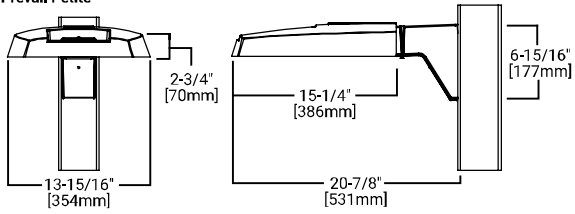
- Lumen packages range from 4,800 - 52,300 lumens (35W - 350W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 160 lumens per watt
- Energy and maintenance savings up to 85% versus HID solutions
- Standard universal quick mount arm with universal drill pattern

Connected Systems

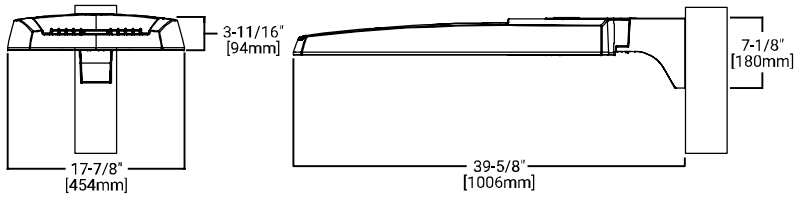
- WaveLinx

Dimensional Details

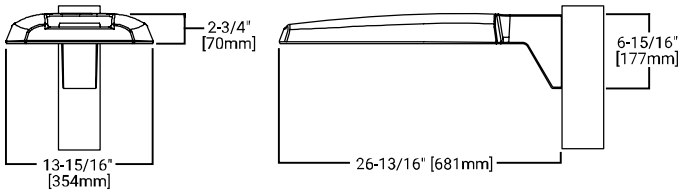
Prevail Petite



Prevail XL



Prevail



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

Ordering Information

SAMPLE NUMBER: **PRV-XL-C75-D-UNV-T4-SA-BZ**

Product Family [1, 2]	Light Engine [4]	Driver	Voltage	Distribution	Mounting	Color
PRV-P=Prevail Petite **BAA-PRV-P**=Prevail Petite BAA Compliant [3] **TAA-PRV-P**=Prevail Petite TAA Compliant [3]	**C10**=(1 LED) 4,900 Nominal Lumens **C15**=(1 LED) 6,900 Nominal Lumens **C20**=(1 LED) 9,800 Nominal Lumens **C25**=(1 LED) 11,800 Nominal Lumens	**D**=Dimming (0-10V)	**UNV**=Universal (120-277V) **347**=347V **480**=480V [5] **DV**=DuraVolt (277-480V) [5, 6]	**T2**=Type II **T3**=Type III **T4**=Type IV **T5**=Type V	**SA**=Standard Versatile Arm **MA**=Mast Arm **WM**=Wall Mount Arm **ADJA**=Adjustable Arm - Pole Mount **ADJS**=Adjustable Arm - Slipfitter, 3in vertical tenon **ADJA-WM**=Adjustable Arm - Wall Mount	**BZ**=Bronze **AP**=Grey **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White
PRV=Prevail **BAA-PRV**=Prevail BAA Compliant [3] **TAA-PRV**=Prevail TAA Compliant [3]	**C15**=(1 LED) 7,100 Nominal Lumens **C25**=(2 LEDs) 13,100 Nominal Lumens **C40**=(2 LEDs) 17,100 Nominal Lumens **C60**=(2 LEDs) 20,000 Nominal Lumens					
PRV-XL=Prevail XL **BAA-PRV-XL**=Prevail XL BAA Compliant [3] **TAA-PRV-XL**=Prevail XL TAA Compliant [3]	**C75**=(4 LED) 26,100 Nominal Lumens **C100**=(4 LED) 31,000 Nominal Lumens **C125**=(4 LED) 36,000 Nominal Lumens **C150**=(6 LED) 41,100 Nominal Lumens **C175**=(6 LED) 48,600 Nominal Lumens					

Options (Add as Suffix)

7030=70 CRI / 3000K CCT [7]
7050=70 CRI / 5000K CCT [7]
HSS=House Side Shield [8]
L90=Optics Rotated 90° Left
R90=Optics Rotated 90° Right
10K=10kV UL 1449 Fused Surge Protective Device
20MSP=20kV MOV Surge Protective Device
20K=Series 20kV UL 1449 Surge Protective Device
HA=50°C High Ambient Temperature [9]
CC=Coastal Construction [10]
PER=NEMA 3-PIN Twistlock Photocontrol Receptacle [11]
PER7=NEMA 7-PIN Twistlock Photocontrol R eceptacle [11]
MS/DIM-L08=Dimming Motion and Daylight Sensor, IR Remote Programmable, < 8' Mounting [12, 13]
MS/DIM-L20=Dimming Motion and Daylight Sensor, IR Remote Programmable, 8' - 20' Mounting [12, 13]
MS/DIM-L40=Dimming Motion and Daylight Sensor, IR Remote Programmable, 21' - 40' Mounting [12, 13]
SPB1=Dimming Motion and Daylight Sensor, Bluetooth Programmable, < 8' Mounting [12, 14]
SPB2=Dimming Motion and Daylight Sensor, Bluetooth Programmable, 8' - 20' Mounting [12, 14]
SPB4=Dimming Motion and Daylight Sensor, Bluetooth Programmable, 21' - 40' Mounting [12, 14]
ZW=Wavelinx-enabled 4-PIN Twistlock Receptacle [12]
ZD=SR Driver-enabled 4-PIN Twistlock Receptacle [12]
ZW-SWPD4XX=WaveLinx, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting [12, 15, 16, 17]
ZW-SWPD5XX=WaveLinx, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting [12, 15, 16, 17]
ZD-SWPD4XX=WaveLinx, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting [12, 15, 16, 17]
ZD-SWPD5XX=WaveLinx, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting [12, 15, 16, 17]
(See Table Below)=LumenSafe Integrated Network Security Camera [18, 19]

Accessories (Order Separately) [20, 21]

PRVSA-XX=Standard Arm Mounting Kit [22]
PRVMA-XX=Mast Arm Mounting Kit [22]
PRVWM-XX=Wall Mount Kit [22]
PRV-ADJA-XX=Adjustable Arm - Pole Mount Kit [22]
PRV-ADJS-XX=Adjustable Arm - Slipfitter Kit [22]
PRV-ADJA-WM-XX=Adjustable Arm - Wall Mount Kit [22]
PRVXLSA-XX=Standard Arm Mounting Kit [18]
PRVXLMA-XX=Mast Arm Mounting Kit [18]
PRVXLWM-XX=Wall Mount Kit [18]
PRV-XL-ADJA-XX=Adjustable Arm - Pole Mount Kit [18]
PRV-XL-ADJS-XX=Adjustable Arm - Slipfitter Kit [18]
PRV-XL-ADJA-WM-XX=Adjustable Arm - Wall Mount Kit [18]
MA1010-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon
MA1011-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon
MA1017-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon
MA1018-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon
SRA238=Tenon Adapter from 2-3/8" to 3"
PRV/COB-FDV=Full Drop Visor [23]
PRVXL/COB-FDV=Full Drop Visor [18]
HS/VERD=House Side Shield [8, 24]
VGS-F/B=Vertical Glare Shield, Front/Back [24]
VGS-SIDE=Vertical Glare Shield, Side [24]
OA/RA1013=Photocontrol Shorting Cap
OA/RA1014=NEMA Photocontrol - 120V
OA/RA1016=NEMA Photocontrol - Multi-Tap 105-285V
OA/RA1201=NEMA Photocontrol - 347V
OA/RA1027=NEMA Photocontrol - 480V
FSIR-100=Wireless Configuration Tool for Occupancy Sensor [25]
SWPD4-XX=WaveLinx Sensor, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting [15, 16, 17, 26]
SWPD5-XX=WaveLinx Sensor, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting [15, 16, 17, 26]
WOLC-7P-10A=WaveLinx Outdoor Control Module (7-PIN) [27]

NOTES:

1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to installation instructions IB500002EN and pole white paper WP513001EN for additional support information.
3. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
4. Standard 4000K CCT and 70CRI.
5. 480V not to be used with ungrounded or impedance grounded systems.
6. DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit www.signify.com/duravolt for more information.
7. Use dedicated IES files on product website for non-standard CCTs.
8. House Side Shield not suitable with T5 distribution. Not available with PRV-C60 lumen package.
9. Not available with PRV-C60 lumen package. Not available with PRV-P-C25 lumen package.
10. Salt spray tested to over 5,000-hours per ASTM B117 with a scribe rating of 9 per ASTM D1654. Also achieves 7,000-hour rating per ASTM B117 with a scribe rating of 4 per ASTM D1654. Extended lead times may apply.
11. If DuraVolt (DV) is specified, use a photocontrol that matches the input voltage used.
12. Controls system is not available in combination with a photocontrol receptacle (PER or PER7) or another controls system (MS, SPB, ZD, or ZW). Option not available with DuraVolt (DV) voltage option.
13. Utilizes the Wattstopper sensor FSP-211. Sensor color white unless specified otherwise via PDR. To field-configure, order FSIR-100 accessory separately.
14. Utilizes the Wattstopper sensor FSP-3XX series. Sensor color determined by product finish. See Sensor Color Reference Table. Field-configures via mobile application. See Controls section for details.
15. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F).
16. For the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more Wavelinx application information.
17. Replace XX with sensor color (WH, BZ, or BK).
18. Only available in PRV-XL configurations C75, C100, C125, C150, or C175.
19. Not available with 347V, 480V, DV, or HA options. Consult LumenSafe system product pages for additional details and compatability information.
20. Replace XX with paint color.
21. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
22. Only for use with PRV and PRV-P.
23. Only for use with PRV. Not available for use with PRV-P or PRV-XL configurations.
24. Must order one per optic/LED when ordering as a field-installable accessory (1, 2, 4, or 6).
25. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information.
26. Requires 4-PIN twistlock receptacle (ZD or ZW) option.
27. Requires 7-PIN NEMA twistlock photocontrol receptacle (PER7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS, ZD, ZW or LWR). Operates on 120-347V input voltages.

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

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

Stock Ordering Information

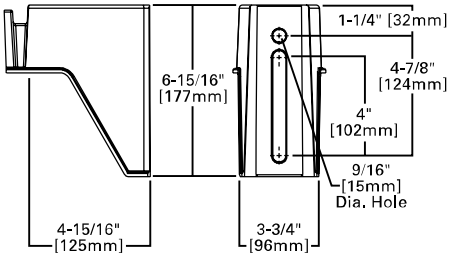
Product Family [1]	Light Engine	Voltage	Distribution
PRVS=Prevail	**C15**=(1 LED) 7,100 Nominal Lumens **C25**=(2 LEDs) 13,100 Nominal Lumens **C40**=(2 LEDs) 17,100 Nominal Lumens **C60**=(2 LEDs) 20,000 Nominal Lumens	**UNV**=Universal (120-277V) **347**=347V [2]	**T3**=Type III **T4**=Type IV
PRVS-XL=Prevail XL	**C75**=(4 LED) 26,100 Nominal Lumens **C100**=(4 LED) 31,000 Nominal Lumens **C125**=(4 LED) 36,000 Nominal Lumens **C150**=(6 LED) 41,100 Nominal Lumens **C175**=(6 LED) 48,600 Nominal Lumens		

NOTES:

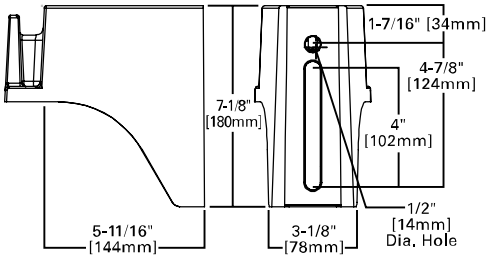
1. All stock configurations are standard 4000K/70CRI, bronze finish, and include the standard versatile mounting arm.
2. Only available in PRVS configurations C15, C25, C40 or C60.

Mounting Details

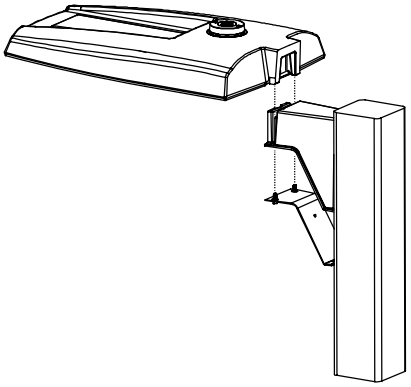
Pole Mount Arm (PRV & PRV-P)



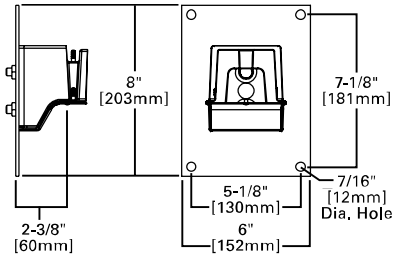
Pole Mount Arm (PRV-XL)



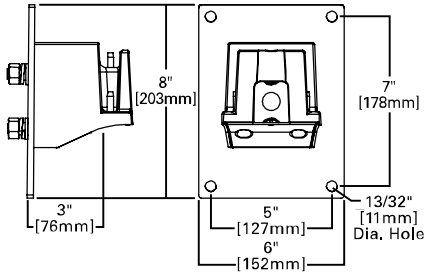
Versatile Mount System



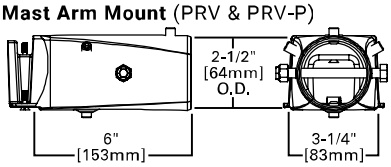
Wall Mount (PRV & PRV-P)



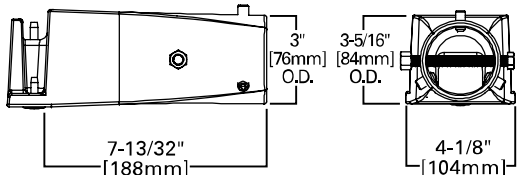
Wall Mount (PRV-XL)



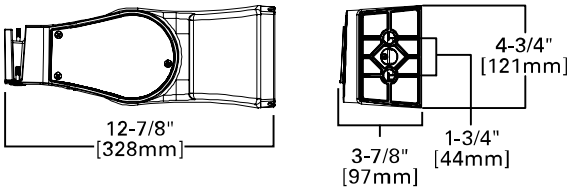
Mast Arm Mount (PRV & PRV-P)



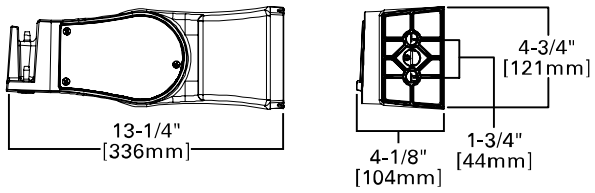
Mast Arm Mount (PRV-XL)



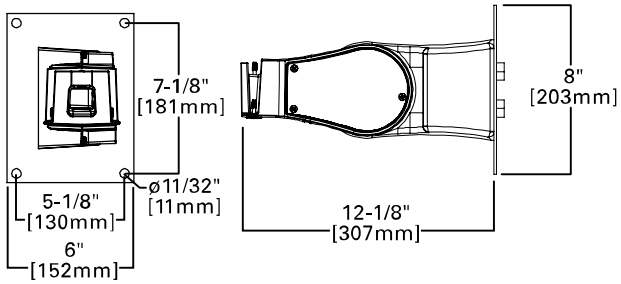
Adjustable Pole Mount Arm (PRV & PRV-P)



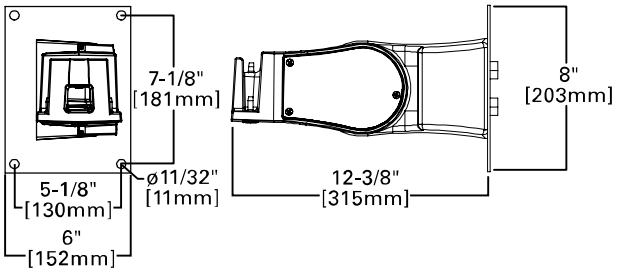
Adjustable Pole Mount Arm (PRV-XL)



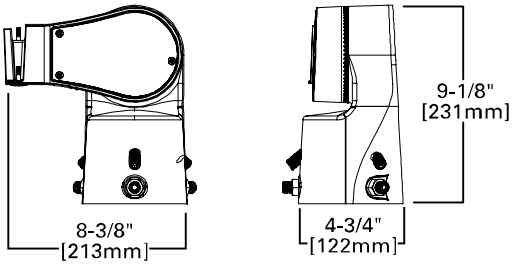
Adjustable Wall Mount (PRV & PRV-P)



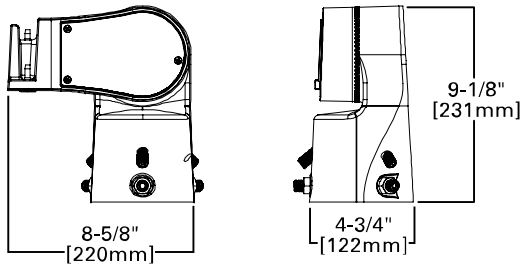
Adjustable Wall Mount (PRV-XL)



Adjustable Slipfitter (PRV & PRV-P)



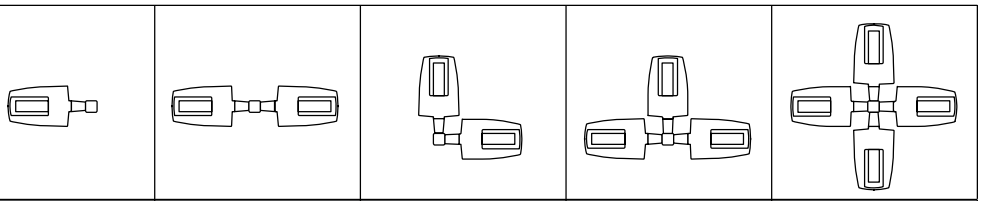
Adjustable Slipfitter (PRV-XL)



Mounting Details

Mounting Configurations and EPAs

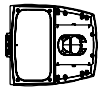
NOTE: For 2 PRV's mounted at 90°, requires minimum 3" square or 4" round pole for fixture clearance. For 2 PRV-XL's mounted at 90°, requires minimum 4" square or round pole for fixture clearance. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications.



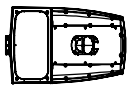
Housing Size	Tilt Angle (Degrees)	Arm Mount Single	Arm Mount 2 @ 180°	Arm Mount 2 @ 90°	Arm Mount 3 @ 90°	Arm Mount 4 @ 90°
Prevail Petite	0°	0.54	1.08	0.84	1.38	1.38
	60°	1.68	1.85	2.42	3.15	3.30
Prevail	0°	0.92	1.35	1.42	1.63	1.63
	60°	2.20	2.40	3.05	3.88	4.07
	60° + Full Drop Visor	2.20	2.40	3.25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

Optical Configurations

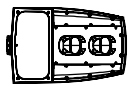
PRV-P-C10/C15/C20/C25 (4,900/6,900/9,800/11,800 Nominal Lumens)



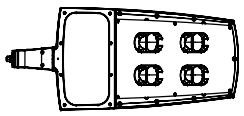
PRV-C15 (7,100 Nominal Lumens)



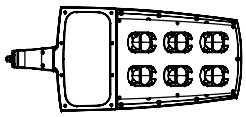
PRV-C25/C40/C60 (13,100/17,100/20,000 Nominal Lumens)



PRV-XL-C75/C100/C125 (26,100/31,000/36,300 Nominal Lumens)

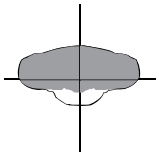


PRV-XL-C150/C175 (41,100/48,600 Nominal Lumens)

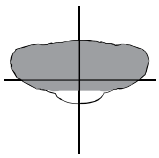


Optical Distributions

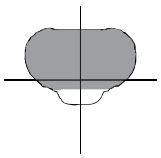
T2 (Type II)



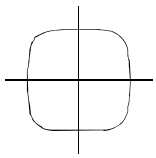
T3 (Type III)



T4 (Type IV)



T5 (Type V)



Product Specifications

Construction

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

Optics

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

Electrical

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

Mounting

- Versatile, patented, standard mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8" (Type M drilling recommended for new installations)
- A knock-out on the standard mounting arm enables round pole mounting
- Adjustable pole and wall mount arms adjust in 5° increments from 0° to 60°; Downward facing orientation only (Type N drilling required for ADJA mount)
- Adjustable slipfitter arm adjusts in 5° increments from -5° to 85°; Downward facing orientation only
- Adjustable Arms: 1.5G vibration rated
- Prevail and Prevail Petite: 3G vibration rated
- Prevail XL Mast Arm: 3G vibration rated
- Prevail XL Standard Arm: 1.5G vibration rated

Typical Applications

- Parking lots, Walkways, Roadways and Building Areas

Finish

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

Shipping Data

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

Warranty

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

Energy and Performance Data

View PRV-P IES files | View PRV IES files | View PRV-XL IES files

Power and Lumens

Product Family		Prevail Petite				Prevail				Prevail XL				
Light Engine		C10	C15	C20	C25	C15	C25	C40	C60	C75	C100	C125	C150	C175
Power (Watts)		35	49	73	94	52	96	131	153	176	217	264	285	346
Input Current @ 120V (A)		0.29	0.41	0.61	0.79	0.43	0.80	1.09	1.32	1.50	1.84	2.21	2.38	2.92
Input Current @ 277V (A)		0.13	0.18	0.27	0.35	0.19	0.35	0.48	0.57	0.66	0.82	0.97	1.04	1.25
Input Current @ 347V (A)		0.11	0.16	0.23	0.29	0.17	0.30	0.41	0.48	0.54	0.66	0.79	0.84	1.02
Input Current @ 480V (A)		0.08	0.12	0.17	0.22	0.12	0.22	0.30	0.35	0.40	0.48	0.57	0.62	0.74
Distribution [1]														
Type II	4000K Lumens	4,775	6,717	9,542	11,521	7,123	13,205	17,172	20,083	26,263	31,231	36,503	41,349	48,876
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5
	Lumens per Watt	138	137	131	122	137	138	131	131	149	144	138	145	141
	3000K Lumens [1]	4,869	6,595	9,369	11,312	6,994	12,965	16,860	19,718	25,786	30,664	35,840	40,598	47,989
Type III	4000K Lumens	4,782	6,727	9,556	11,538	7,111	13,183	17,144	20,050	26,120	31,061	36,304	41,124	48,610
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	138	137	131	123	137	137	131	131	148	143	138	144	140
	3000K Lumens [1]	4,695	6,605	9,383	11,329	6,982	12,944	16,832	19,686	25,646	30,497	35,645	40,377	47,727
Type IV	4000K Lumens	4,880	6,865	9,752	11,774	7,088	13,140	17,087	19,984	26,098	31,035	36,274	41,089	48,569
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	141	140	134	125	136	137	130	131	148	143	137	144	140
	3000K Lumens [1]	4,792	6,740	9,575	11,561	6,959	12,901	16,777	19,621	25,624	30,471	35,615	40,343	47,687
Type V	4000K Lumens	5,067	7,128	10,126	12,226	7,576	14,045	18,264	21,360	28,129	33,450	39,097	44,287	52,349
	BUG Rating	B3-U0-G2	B3-U0-G2	B4-U0-G3	B4-U0-G3	B3-U0-G3	B4-U0-G3	B4-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	146	145	139	130	146	146	139	140	160	154	148	155	151
	3000K Lumens [1]	4,975	6,999	9,942	12,004	7,438	13,790	17,932	20,972	27,618	32,843	38,387	43,483	51,398

NOTES:
1. For 3000K, 5000K or HSS data, refer to published IES files.

Lumen Maintenance

Configuration	TM-21 Lumen Maintenance (50,000 Hours)	Theoretical L70 (Hours)
Prevail and Prevail Petite at 25°C	91.30%	> 194,000
Prevail and Prevail Petite at 40°C	87.59%	> 134,000
Prevail XL at 25°C	91.40%	> 204,000
Prevail XL at 40°C	89.41%	> 158,000

Sensor Color Reference Table (SPBx)

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

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99

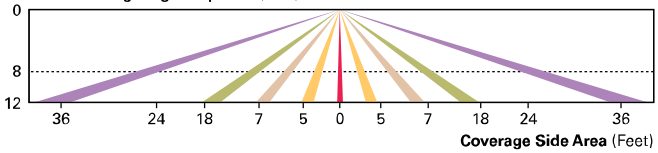
Control Options

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

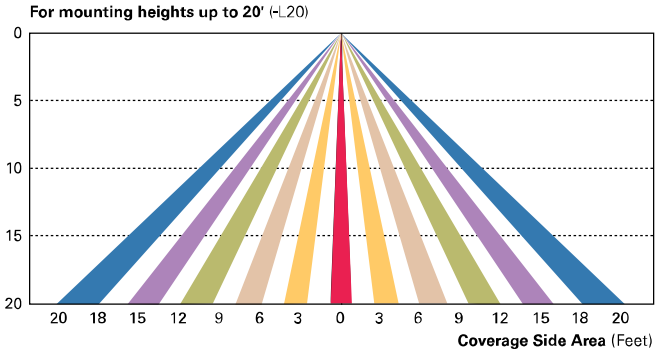
Photocontrol (PER and PER7) Photocontrol receptacles provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-PIN standards can be utilized with the PER7 receptacle.

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

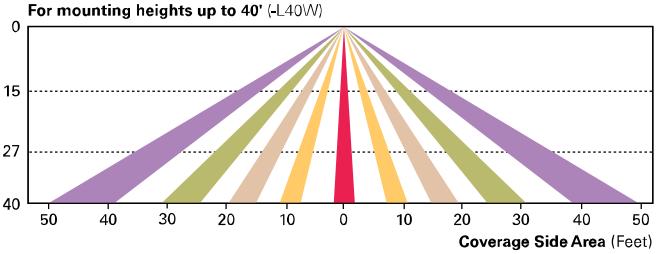
For mounting heights up to 8' (-L08)



For mounting heights up to 20' (-L20)



For mounting heights up to 40' (-L40W)

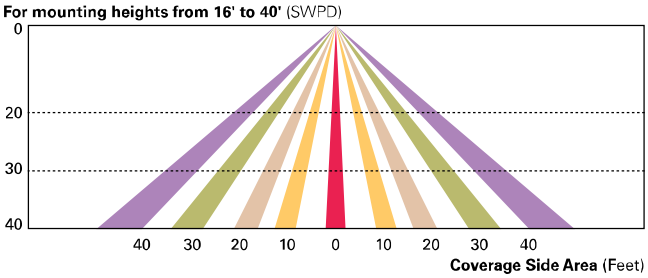


WaveLinx Wireless Control and Monitoring System Available in 7-PIN or 4-PIN configurations, the WaveLinx Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. At least one Wireless Area Controller (WAC) is required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

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

WaveLinx Wireless Sensor (SWPD4 and SWPD5) These outdoor sensors offer passive infrared (PIR) occupancy sensing and a photocell for closed-loop daylight sensing. These sensors can be factory installed or field-installed via simple, tool-less integration into luminaires equipped with the Zhaga Book 18 compliant 4-PIN receptacle (ZD or ZW). These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected, and the photocell for "dusk-to-dawn" control is default enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.

For mounting heights from 16' to 40' (SWPD)



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

Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com

Aluminum Poles

SSA SQUARE STRAIGHT ALUMINUM

TYPE SL1 POLE
WILDHORSE TOWNHOMES
LOT 2A-2

TO MATCH ADJACENT POLES

FEATURES
- Straight square shaft 6005-T6 aluminum alloy polished
- 356-T6 cast aluminum alloy base with aluminum knock-in bolt covers
- 8'-35' mounting heights
- Drilled or tenon (specify)

DESIGN CONSIDERATIONS - VIBRATIONS AND NON-GROUND MOUNTED INSTALLATIONS

The information contained herein is for general guidance only and is not a replacement for professional judgment. Design considerations for wind-induced vibrations and non-ground mounted installations (e.g., installations on bridges or buildings) are not included in this document. Consult with a professional, and local and federal standards, before ordering to ensure product is appropriate for the intended purpose and installation location. Refer to the Cooper Lighting Solutions Light Pole White Paper for risk factors and design considerations. Learn more.

NOTE: The Limited Warranty for this product specifically excludes fatigue failure or similar damage resulting from vibration, harmonic oscillation or resonance.

Specifications and dimensions subject to change without notice. Consult your lighting representative at Cooper Lighting Solutinos or visit www.cooperlighting.com for available options, accessories and ordering information.

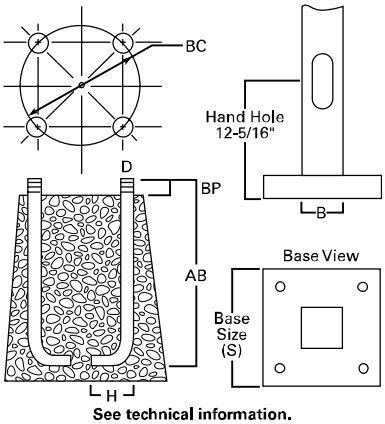
ORDERING INFORMATION

SAMPLE NUMBER: SSA4T08WXM1G

Product Family	Shaft Size (Inches) [1]	Wall Thickness (Inches)	Mounting Height (Feet)	Base Type	Finish	Mounting Type	Number and Location of Arms	Options (Add as Suffix)
SSA=Square Straight Aluminum	**4**=4" **5**=5" **6**=6" **9**=9" Steel; 6-3/4" Aluminum	**T**=0.125" **M**=0.188" **X**=0.250"	**08**=8' **10**=10' **12**=12' **15**=15' **18**=18' **20**=20' **25**=25' **30**=30' **35**=35'	**W**=Aluminum	**A**=Satin Brushed Aluminum **B**=Clear Anodized **C**=Dark Bronze Anodized **D**=Black Anodized **E**=Medium Bronze Anodized **F**=Dark Bronze **J**=Summit White **K**=Carbon Bronze **L**=Dark Platinum **R**=Hartford Green **S**=Silver **T**=Graphite Metallic **V**=Grey **W**=White **X**=Custom Color **BK**=Black Smooth **BT**=Black Textured	**2**=2-3/8" O.D. Tenon (4" Long) **3**=3-1/2" O.D. Tenon (5" Long) **4**=4" O.D. Tenon (6" Long) **9**=3" O.D. Tenon (4" Long) **6**=2-3/8" O.D. Tenon (6" Long) **7**=4" O.D. Tenon (10" Long) **A**=Type A Drilling **C**=Type C Drilling **E**=Type E Drilling **F**=Type F Drilling **G**=Type G Drilling **J**=Type J Drilling **K**=Type K Drilling **M**=Type M Drilling **N**=Type N Drilling **R**=Type R Drilling	**1**=Single **2**=2 at 180° **3**=Triple [2] **4**=4 at 90° **5**=2 at 90° **X**=None	**A**=1/2" Tapped Hub [3] **B**=3/4" Tapped Hub [3] **C**=Convenience Outlet [4] **E**=GFCI Convenience Outlet [4] **F**=Vibration Pad **G**=Ground Lug **H**=Additional Hand Hole [5] **V**=Vibration Dampener

NOTES: 1. All shaft sizes nominal. **2.** Square poles are 3 at 90°, round poles are 3 at 120°. **3.** Tapped Hub is located 5' below the pole top and on the same side of pole as hand hole, unless specified otherwise. **4.** Outlet is located 4' above base and on same side of pole as hand hole, unless specified otherwise. Receptacle not included, provision only. **5.** Additional hand hole is located 12" below pole top and 90° from standard hand hole location, unless otherwise specified.

ANCHORAGE DATA



See technical information.

Pole	Anchor Bolt and Template Package	Template Only	Bolt Circle (inches)	Number of Bolts	Anchor Bolt Size (inches)
SSA4TxxW	317QB404	229354D	9	4	3/4 x 17 x 3
SSA4MxxW	317QB404	229354D	9	4	3/4 x 17 x 3
SSA5TxxW	317QB405	229357D	11	4	3/4 x 17 x 3
SSA5MxxW	317QB405	229357D	11	4	3/4 x 17 x 3
SSA6MxxW	436QB406	229243D	12-1/2	4	1 x 36 x 4
SSA6XxxW	436QB406	229243D	12-1/2	4	1 x 36 x 4
SSA9XxxW	436QB468	228520D	14-1/4	4	1 x 36 x 4

Effective Projected Area (At Pole Top)

Mounting Height (Feet)	Catalog Number [1,2]	Wall Thickness (Inches)	Base Square [3] (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection [3] (Inches)	Shaft Size [3] (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) [4]				Max. Fixture Load - Includes Bracket (Pounds)
MH			**S**	**BC**	**BP**	**B**	**D x AB x H**		**70 mph**	**80 mph**	**90 mph**	**100 mph**	
8	SSA4T08W	0.125	10	9	3-1/8	4	3/4 x 17 x 3	23	26.6	19.9	15.2	11.9	350
12	SSA4T12W	0.125	10	9	3-1/8	4	3/4 x 17 x 3	32	16.0	11.5	8.5	6.3	260
15	SSA4T15W	0.125	10	9	3-1/8	4	3/4 x 17 x 3	39	9.1	6.2	4.2	2.8	200
15	SSA4M15W	0.188	10	9	3-1/8	4	3/4 x 17 x 3	55	14.8	10.6	7.7	5.6	200
15	SSA5T15W	0.125	11-9/16	11	3-1/4	5	3/4 x 17 x 3	52	16.0	11.3	8.1	5.8	260
18	SSA4T18W	0.125	10	9	3-1/8	4	3/4 x 17 x 3	46	6.4	4.0	2.3	1.1	100
18	SSA4M18W	0.188	10	9	3-1/8	4	3/4 x 17 x 3	66	11.0	7.4	5.0	3.3	150
18	SSA5T18W	0.125	11-9/16	11	3-1/4	5	3/4 x 17 x 3	61	11.8	7.8	5.1	3.2	150
18	SSA5M18W	0.188	11-9/16	11	3-1/4	5	3/4 x 17 x 3	85	19.2	13.5	9.6	6.8	260
20	SSA4M20W	0.188	10	9	3-1/8	4	3/4 x 17 x 3	72	8.8	5.6	3.5	1.9	150
20	SSA5T20W	0.125	11-9/16	11	3-1/4	5	3/4 x 17 x 3	66	9.5	5.9	3.5	1.7	100
20	SSA5M20W	0.188	11-9/16	11-1/8	3-1/4	5	3/4 x 17 x 3	94	16.4	11.2	7.6	5.0	150
25	SSA5M25W	0.188	11-1/2	11	3-1/4	5	3/4 x 17 x 3	115	10.2	6.0	3.2	1.1	100
25	SSA6M25W	0.188	12-3/4	12-1/2	4	6	1 x 36 x 4	140	16.6	10.6	6.5	3.5	260
30	SSA6X30W	0.250	12-3/4	12-1/2	4	6	1 x 36 x 4	215	14.8	9.0	5.0	2.1	260
30	SSA9X30W [5]	0.250	15-1/8	14-5/8	4-1/8	6-3/4	1 x 36 x 4	237	21.1	13.5	8.2	4.5	260
35	SSA9X35W [5]	0.250	15-1/8	14-5/8	4-1/8	6-3/4	1 x 36 x 4	274	14.1	7.6	3.1	–	150

Effective Projected Area (18" Above Pole Top)

Mounting Height (Feet)	Catalog Number [1,2]	Wall Thickness (Inches)	Base Square [3] (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection [3] (Inches)	Shaft Size [3] (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) [4]				Max. Fixture Load - Includes Bracket (Pounds)
MH			**S**	**BC**	**BP**	**B**	**D x AB x H**		**70 mph**	**80 mph**	**90 mph**	**100 mph**	
8	SSA4T08W	0.125	10	9	3-1/8	4	3/4 x 17 x 3	23	22.2	16.6	12.7	10	350
12	SSA4T12W	0.125	10	9	3-1/8	4	3/4 x 17 x 3	32	14.1	10.1	7.4	5.5	260
15	SSA4T15W	0.125	10	9	3-1/8	4	3/4 x 17 x 3	39	8.2	5.6	3.8	2.5	200
15	SSA4M15W	0.188	10	9	3-1/8	4	3/4 x 17 x 3	55	13.4	9.6	6.9	5.1	200
15	SSA5T15W	0.125	11-9/16	11	3-1/4	5	3/4 x 17 x 3	52	14.4	10.2	7.3	5.2	260
18	SSA4T18W	0.125	10	9	3-1/8	4	3/4 x 17 x 3	46	5.9	3.6	2.1	0.9	100
18	SSA4M18W	0.188	10	9	3-1/8	4	3/4 x 17 x 3	66	10.0	6.8	4.6	3.0	150
18	SSA5T18W	0.125	11-9/16	11	3-1/4	5	3/4 x 17 x 3	61	10.8	7.2	4.7	2.9	150
18	SSA5M18W	0.188	11-9/16	11	3-1/4	5	3/4 x 17 x 3	85	17.6	12.4	8.8	6.2	260
20	SSA4M20W	0.188	10	9	3-1/8	4	3/4 x 17 x 3	72	8.1	5.2	3.2	1.7	150
20	SSA5T20W	0.125	11-9/16	11	3-1/4	5	3/4 x 17 x 3	66	8.8	5.5	3.2	1.5	100
20	SSA5M20W	0.188	11-9/16	11-1/8	3-1/4	5	3/4 x 17 x 3	94	15.2	10.3	7.0	4.7	150
25	SSA5M25W	0.188	11-1/2	11	3-1/4	5	3/4 x 17 x 3	115	9.5	5.6	3.0	1.0	100
25	SSA6M25W	0.188	12-3/4	12-1/2	4	6	1 x 36 x 4	140	15.6	9.9	6.1	3.3	260
30	SSA6X30W	0.250	12-3/4	12-1/2	4	6	1 x 36 x 4	215	14.0	8.5	4.7	2.0	260
30	SSA9X30W [5]	0.250	15-1/8	14-5/8	4-1/8	6-3/4	1 x 36 x 4	237	20.0	12.8	7.8	4.3	260
35	SSA9X35W [5]	0.250	15-1/8	14-5/8	4-1/8	6-3/4	1 x 36 x 4	274	13.5	7.2	2.9	–	150

NOTES:

1. Catalog number includes pole with hardware kit. Anchor bolts not included. Before installing, make sure proper anchor bolts and templates are obtained.
2. Tenon size or machining for rectangular arms must be specified. Hand hole position relative to drill location.
3. Shaft size, base square, anchor bolts and projections may vary slightly. All dimensions nominal.
4. EPAs based on shaft properties with wind normal to flat. EPAs calculated using base wind velocity as indicated plus 30% gust factor.
5. Factory installed vibration damper.

VIBRATION

Vibrations may cause damage to structures, including poles. Vibrations are unpredictable, and there are many factors and variables that can cause damaging vibrations. Many wind conditions exist that can create damaging vibrations to poles and luminaires, such as constant winds between 10-30 mph. Although all pole types can experience vibration, straight square poles seem to be most prone. Vibration dampers and/or a round tapered design may be used to mitigate damage from vibrations, but there is no guarantee damaging vibrations will be prevented. Vibration dampers are not included with this pole but can be ordered separately. Consult with a professional, and local and federal standards, to ensure this pole is appropriate for the intended purpose and installation location. Refer to Cooper Lighting Solutions' Light Pole White Paper for risk factors and design considerations.

MAINTENANCE

Perform inspections periodically. A prudent inspection schedule would be: one week after installation, one month after installation, yearly after installation, and following any major wind event. During the inspection, check the poles for cracks. If cracks are detected, remedial action is required. Recheck anchor bolt torques and re-tighten according to the recommended torque values. Check for missing covers and pole caps and replace as necessary. Check the pole for corrosion and deterioration of the finish. Should there be corrosion or deterioration, take remedial action to correct.

WARNING: Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to pole white paper WP513001EN for additional support information. Before installing, make sure proper anchor bolts and templates are obtained. The use of unauthorized accessories such as banners, signs, cameras or pennants for which the pole was not designed voids the pole warranty and may result in pole failure causing serious injury or property damage. Information regarding total loading capacity can be supplied upon request. The pole warranty is void unless poles are used and installed as a complete pole and luminaire combination. This warranty specifically excludes failure as the result of a third party act or omission, misuse, unanticipated uses, fatigue failure or similar phenomena resulting from induced vibration, harmonic oscillation or resonance associated with movement of air currents around the product.

Specifications and dimensions subject to change without notice. Consult your lighting representative at Cooper Lighting Solutions or visit www.cooperlighting.com for available options, accessories and ordering information.

Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com

Canada Sales
5925 McLaughlin Road
Mississauga, Ontario L5R 1B8
P: 905-501-3000
F: 905-501-3172

DESCRIPTION

The Invue Arbor post top brings architectural style to area/site and pedestrian scale applications. Its dayform appearance brings a desired organic look into the urban environment. WaveStream LED Optics provide a uniform pixelation free image, managing glare while providing high levels of visibility.

TYPE SL2A HEAD
WILDHORSE TOWNHOMES
LOT 2A-2

SPECIFICATION FEATURES

Construction
Two-piece IP66 rated housing is cast from low copper content corrosion resistant aluminum, maintaining strength and precision to sustain long term dayform appearance. ANSI C136.31 testing compliance prevents damage from installation generated vibration. External hardware and casting seams are minimized to enhance appearance.

Optics
Specifically designed for pedestrian applications, WaveStream LED optical waveguide technology produces both symmetric NEMA type V and asymmetric NEMA II, III, IV distributions. The waveguide is manufactured from precision injection molded acrylic resulting in a pixelation free optical image for improved glare control and visual comfort. Luminaire efficacy's measure up to 100 lm/w for 4000K (+/- 275K) CCT at 70 CRI (min), optional 3000K CCT at 80 CRI is also available.

Electrical
LED driver(s) are directly mounted to upper housing thermal pad for optimal thermal performance. Standard 0-10V dimming drivers and Cooper Lighting Solutions' proprietary surge protection module are designed to withstand 10kV of transient line surge. Drivers operate at 120-277V 50/60Hz with 347V/60Hz or 480V/60Hz operation optional. Suitable for ambient temperature applications as low as -40°C (40°F) to 40°C (104°F). Limited high ambient options allow for 50°C operation.

Controls
The Arbor LED luminaire control options are designed to be simple and cost-effective ASHRAE and California Title 24 compliant solutions. The ANSI C136.41 compliant NEMA 7-PIN receptacle enables wireless dimming when used with compatible photocontrol. See control options page for more details.

Mounting
Fitter assembly mounts over 2-3/8" O.D. tenon and is secured via six concealed stainless steel set screws. Design of fitter provides seamless transition to 3" O.D. round pole top. Additional mounting accessories include a single fixture arm mount, twin fixture arm mount and wall mount arm. Additional pole mount accessories mount to a 3" x 4" long tenon for 4" - 5" O.D. poles tops. For existing 2-3/8" tenons an adapter is shipped standard.

Finish
Cooper Lighting Solutions ("CLS") utilizes premium ultra-weatherable TGIC based polyester powder coatings that are specifically formulated to withstand extended outdoor exposure. The powders are formulated exclusively for CLS 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. Options to meet Buy American Act requirements.

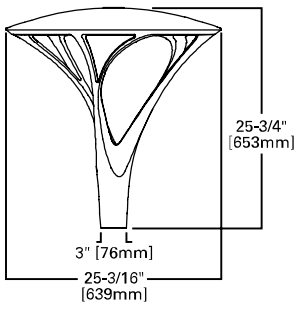
Warranty
Five-year warranty.

ARB ARBOR POST TOP

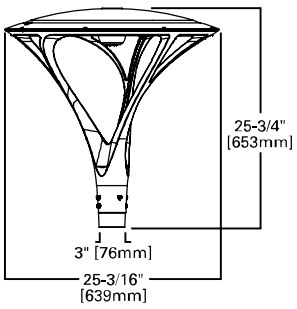
DECORATIVE LUMINAIRE

DIMENSIONS

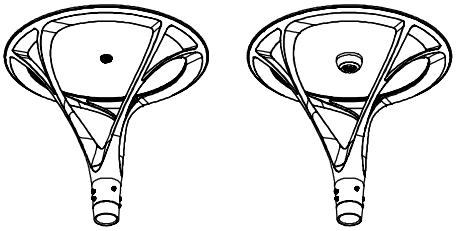
Pole Mount



Pole Mount with WaveLinx



Pole Mount with WaveLinx



CERTIFICATION DATA
UL/cUL Listed
IEC 60529 IP66 Housing
ASTM B117 SaH Spray Tested
ASTM A3560 Low Cooper Alloy
ISO 9001
Dark Sky Approved (3000K CCT and warmer only)
ANSI C136.31 3G Vibration Tested (Post Top)
ANSI C136.31 1.5G Vibration Tested (Twin Mount / Accessory Arm Mount)

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V 50/60Hz, 347V/60Hz, 480V/60Hz
40°C Ambient Temperature Rating
As low as -40°C (-40°F) minimum temperature
*See MINIMUM TEMPERATURE table

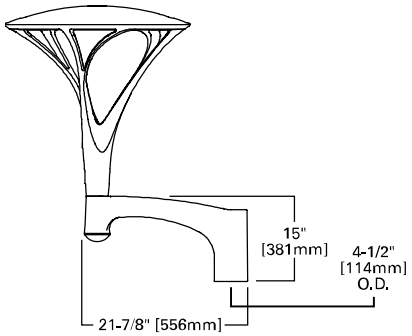
EPA
Effective Projected Area: (Sq. Ft.) 0.9

Approximate Net Weight:
37 lbs. [16.8 kgs.]

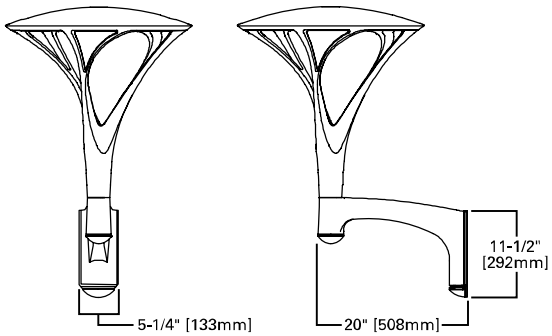
COOPER Lighting Solutions

MOUNTING CONFIGURATIONS (WEIGHT AND EPAS INCLUDES FIXTURE)

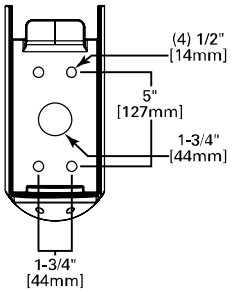
Single Arm Mount (ARSA-XX)
Weight: 56 lbs. [25.45 kgs.]
EPA: 1.7 Sq. Ft.



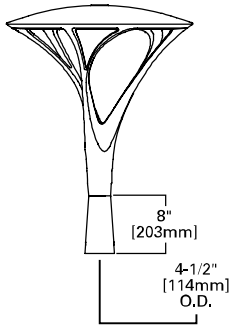
Wall Mount Arm (ARWM-XX)
Weight: 57 lbs. [25.91 kgs.]
EPA: 1.8 Sq. Ft.



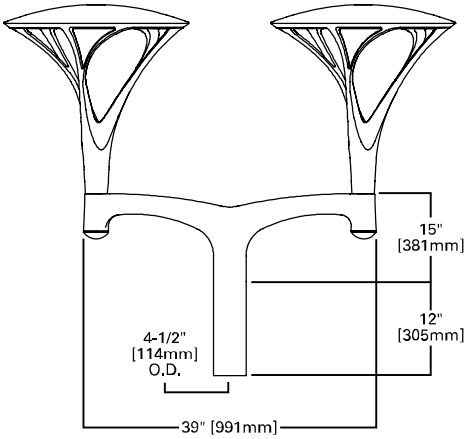
Wall Mount Arm Drill Pattern



Post Top Adapter (ARPA4-XX)
Weight: 41 lbs. [18.63 kgs.]
EPA: 1.2 Sq. Ft.



Twin Arm Mount (ARTA15-XX)
Weight: 114 lbs. [51.81 kgs.]
EPA: 3.45 Sq. Ft.

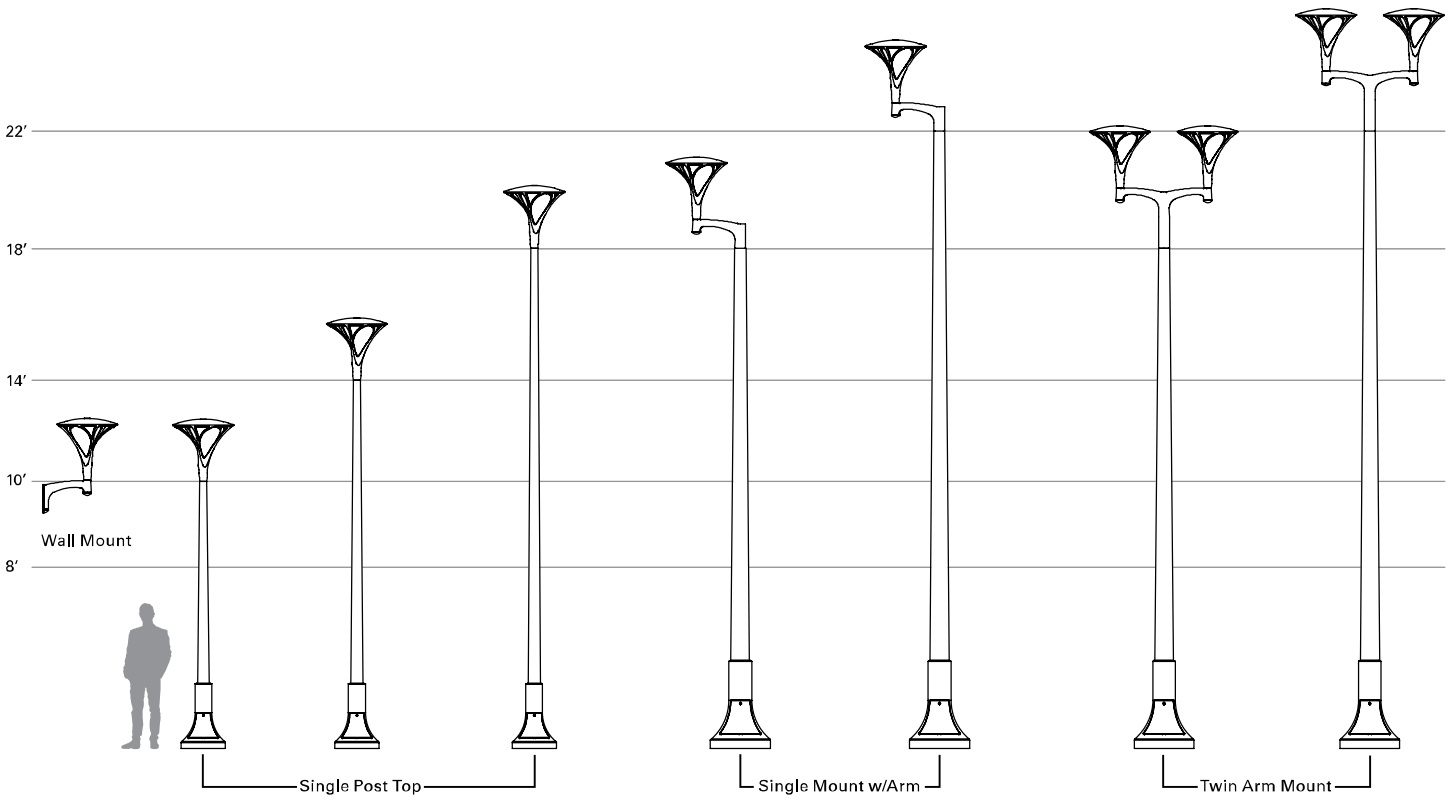


MOUNTING REQUIREMENTS CHART

Tenon O.D. (Inches)	**2-3/8" Tenon**		
Pole Top O.D. (Inches)	**3"**	**4"**	**5"**
Post Top	Standard	Spacer (Provided) & ARPA4-XX (Order Separately)	Spacer (Provided) & ARPA4-XX (Order Separately)
Single Arm Mount	Spacer (Provided)	Spacer (Provided)	Spacer (Provided)

Tenon O.D. (Inches)	**3" Tenon**		
Pole Top O.D. (Inches)		**4"**	**5"**
Post Top		ARPA4-XX (Order Separately)	ARPA4-XX (Order Separately)
Single Arm Mount		Standard	Standard
Twin Mount		Standard	Standard

POLE CONFIGURATIONS (ARP DECORATIVE POLE SHOWN)



ORDERING INFORMATION

Sample Number: ARB-B2-LED-D1-T2-GM

Product Family [1,2]	Lumens [3]	Lamp Type	Voltage	Distribution	Color [7]
ARB=Arbor Post Top **BAA-ARB**=Arbor Post Top Buy American Act Compliant [25]	**B1**=Nominal 2,300 Lumens **B2**=Nominal 4,500 Lumens **B3**=Nominal 8,500 Lumens **B4**=Nominal 9,500 Lumens [4]	**LED**=Solid State Light Emitting Diodes	**D1**=Dimming Driver (120-277V) **347**=347V [5] **480**=480V [5,6]	**T2**=Type II **T3**=Type III **T4**=Type IV **T5**=Type V	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White

Options (Add as Suffix)	Accessories (Order Separately) [19,26]
7030=70 CRI / 3000K CCT [8] **7035**=70 CRI / 3500K CCT [8] **8030**=80 CRI / 3000K CCT [8] **8035**=80 CRI / 3500K CCT [8] **AMB**=Amber 590nm [11,27] **20MSP**=20kV MOV Surge Protective Device **20K**=20kV UL 1449 Fused Surge Protective Device **PC**=Button Type Photocontrol **PER**=NEMA 3-PIN Twistlock Photocontrol Receptacle **PER7**=NEMA 7-PIN Twistlock Photocontrol Receptacle **HA**=50°C High Ambient Temperature [9] **SPB1**=Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting [23] **SPB2**=Dimming Occupancy Sensor with Bluetooth Interface, 8'-20' Mounting [23] **SPB4**=Dimming Occupancy Sensor with Bluetooth Interface, 21'-40' Mounting [23] **MS-L08**=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height [10,11] **MS-L20**=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height [10,11] **MS-L40W**=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height [10,11] **MS/DIM-L08**=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height [10,11] **MS/DIM-L20**=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height [10,11] **MS/DIM-L40W**=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height [10,11] **ZD**=DALI-enabled 4-PIN Twistlock Receptacle [10,12,13,14,29,30] **ZW**=Wavelinx-enabled 4-PIN Twistlock Receptacle [10,12,13,29,30] **SWPD4WH**=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, White [10,12,13,15,19,29,30] **SWPD5WH**=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, White [10,12,13,15,19,29,30] **LWR-LW**=Enlighted Wireless Sensor, Wide Lens for 8' - 16' Mounting Height [10,16] **LWR-LN**=Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height [10,16] **5LTD**=Fifth Light Dali Driver [10,17] **DIM**=0-10V External Dimming Leads [10,18] **VS**=Tempered Glass Vandal Shield **CC**=Coastal Construction [24] **SPBL2**=FDP-301-L2 (Wattstopper DALI sensor) **SPBL4**=FDP-301-L7 (Wattstopper DALI sensor) **TH**=Toolless hardware **F**=Single Fuse [28]	**ARSA-XX**=Single Pole Mount Arm [20] **ARWM-XX**=Wall Mount Arm **ARTA15-XX**=Twin Mount Bracket [21] **ARPA4-XX**=Pole Adapter 4" O.D. Pole **FSIR-100**=Wireless Configuration Tool for Occupancy Sensor [21] **SWPD4WH**=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, White [13,15,19,29] **SWPD5WH**=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, White [13,15,19,29] **WOLC-7P-10A**=Wavelinx Outdoor Control Module (7-PIN) [10,22]

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 information.
2. Fixture slipfits over standard 2-3/8" tenon. 3" O.D. tenon when used with a ARPA4-XX 4" O.D. pole adapter.
3. Standard 4000K CCT, nominal 70CRI.
4. B4 only available with Type V distribution.
5. Requires the use of a step down transformer.
6. 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).
7. Custom and RAL color matching available upon request. Consult your lighting representative for more information.
8. Extended lead times apply. Use dedicated IES files when performing layouts.
9. Not available with B3 lumen package in Type II, III, or IV distributions.
10. Controls system is not available with photocontrol (PC), photocontrol receptacle (PER or PER7), or controls systems MS, LWR or DIM.
11. Not available with HA option.
12. Sensor passive infrared (PIR) may be overly sensitive below -20°C (-4°F).
13. For device to be field-configurable, requires WAC Gateway components WAC-POE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more WaveLinx application information.
14. Not available on B1 or B4 lumen packages.
15. Requires 4-PIN twistlock receptacle (ZD or ZW) option.
16. Enlighted wireless sensors are factory installed and require network components LWP-EM-1, LWP-GW-1, and LWP-PoE8 in appropriate quantities. See website for application information.
17. Not available in B4 lumen package.
18. Low voltage control leads brought 18" outside fixture.
19. Replace XX with paint color.
20. Fits on 3" O.D. x 4" long tenon for nominal 4-1/2" O.D. pole top.
21. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information.
22. Requires 7-PIN NEMA twistlock photocontrol receptacle (PER7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS, ZW, ZD or LWR). Operates on 120-347V input voltages.
23. Smart device with mobile application required to change system defaults. See controls section for details.
24. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.
25. Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
26. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
27. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose Lumen Package B1. See IES files for photometric performance.
28. Must specify voltage (120V, 277V, or 347V) to fuse the single hot leg.
29. Not available with 5LTD option.
30. If ZD or ZW only, shorting cap will be installed on 4-pin receptacle.

POWER AND LUMENS

Lumen Package		**B1**	**B2**	**B3**	**B4**
Drive Current					
Power Wattage (Watts)		24W	48W	96W	99W
Input Current (mA) @ 120V		200	400	800	830
Input Current (mA) @ 208V		120	240	470	480
Input Current (mA) @ 240V		100	200	400	420
Input Current (mA) @ 277V		90	180	350	360
Power Wattage (Watts)		26W	53W	107W	108W
Input Current (mA) @ 347V		79	161	325	328
Input Current (mA) @ 480V		58	117	235	237
Optics					
Type II	Lumens	2,045	3,994	7,362	--
	BUG Rating	B1-U0-G1	B1-U0-G2	B3-U0-G3	--
Type III	Lumens	2,324	4,534	8,451	--
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	--
Type IV	Lumens	2,408	4,691	8,740	--
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	--
Type V	Lumens	2,311	4,529	8,511	9,464
	BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G3	B3-U0-G3

LUMEN MULTIPLIER

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

LUMEN MAINTENANCE

Ambient Temperature	**TM-21 Lumen Maintenance** (60,000 Hours)	**Calculated L70** (Hours)
25°C	>91%	>230,000
40°C	>88%	>172,000
50°C	>86%	>142,000

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

COLOR TEMPERATURE

Color Temperature (CCT)	**CRI** (Nominal)	**Multiplier**
4000	70	1.00
3000	80	0.91

MINIMUM AMBIENT TEMPERATURE

Lumen Package	**Temperature**
B1	-40°C
B2	-35°C
B3	-35°C
B4	-40°C
All DALI powered lumen packages	-20°C

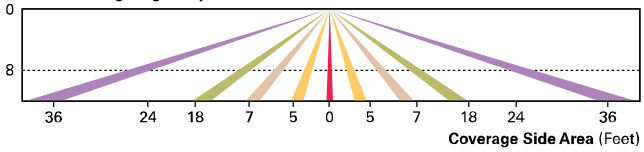
CONTROL OPTIONS

0-10V (D) The dimming option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

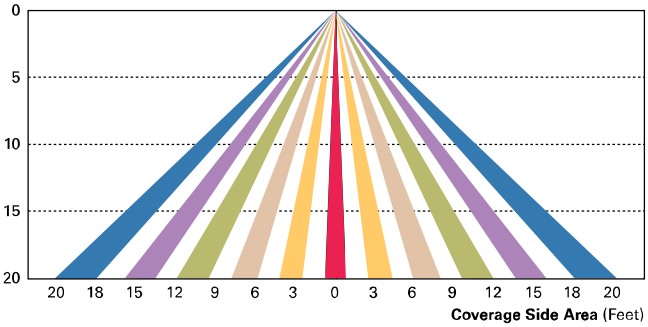
Photocontrol (PER and PER7) Photocontrol receptacles provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

Dimming Occupancy Sensor (SPB, MS/DIM-LXX and MS-LXX) These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM occupancy sensors require the FSIR-100 programming tool to adjust factory defaults.

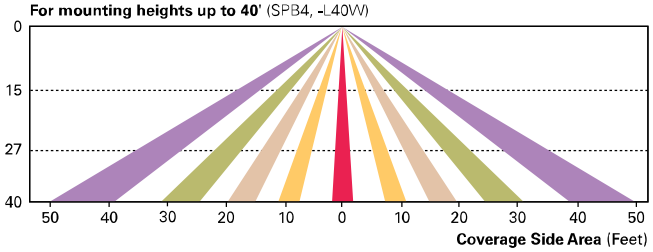
For mounting heights up to 8' (SPB1, -L08)



For mounting heights up to 20' (SPB2, -L20)



For mounting heights up to 40' (SPB4, -L40W)

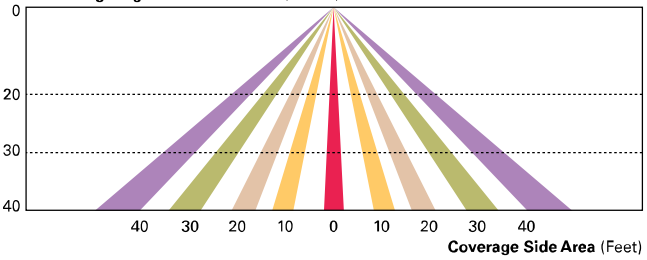


WaveLinx Wireless Control and Monitoring System Available in 7-PIN or 4-PIN configurations, the WaveLinx Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. Use the WaveLinx Mobile application for set-up and configuration.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

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

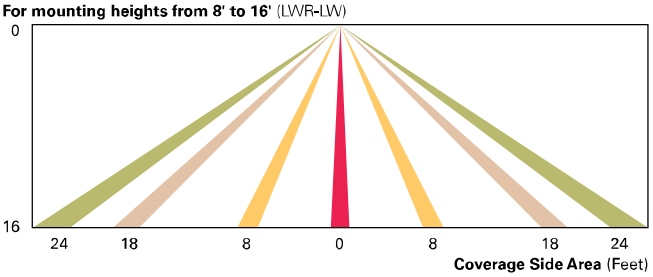
WaveLinx Wireless Sensor (SWPD4 and SWPD5) These outdoor sensors offer passive infrared (PIR) occupancy and a photocell for closed loop daylight sensing. These sensors can be factory installed or field-installed via simple, tool-less integration into luminaires equipped with the Zhaga Book 18 compliant 4-PIN receptacle (ZD or ZW). These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or daylight harvesting that is factory-enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.

For mounting heights from 16' to 40' (SWPD)

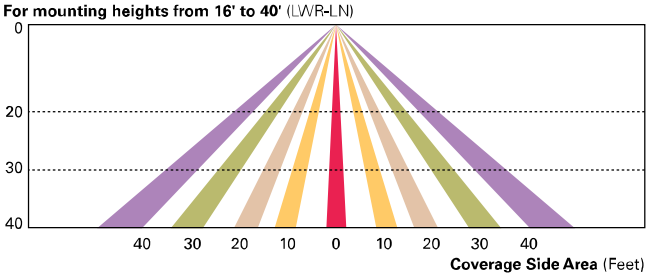


Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN) The Enlighted System is a connected lighting solution that combines LED luminaires with an integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of other resources beyond lighting.

For mounting heights from 8' to 16' (LWR-LW)



For mounting heights from 16' to 40' (LWR-LN)



DESCRIPTION

The Invue Arbor post top brings architectural style to area/site and pedestrian scale applications. Its dayform appearance brings a desired organic look into the urban environment. WaveStream LED Optics provide a uniform pixelation free image, managing glare while providing high levels of visibility.

TYPE SL2B HEAD
WILDHORSE TOWNHOMES
LOT 2A-2

SPECIFICATION FEATURES

Construction
Two-piece IP66 rated housing is cast from low copper content corrosion resistant aluminum, maintaining strength and precision to sustain long term dayform appearance. ANSI C136.31 testing compliance prevents damage from installation generated vibration. External hardware and casting seams are minimized to enhance appearance.

Optics
Specifically designed for pedestrian applications, WaveStream LED optical waveguide technology produces both symmetric NEMA type V and asymmetric NEMA II, III, IV distributions. The waveguide is manufactured from precision injection molded acrylic resulting in a pixelation free optical image for improved glare control and visual comfort. Luminaire efficacy's measure up to 100 lm/w for 4000K (+/- 275K) CCT at 70 CRI (min), optional 3000K CCT at 80 CRI is also available.

Electrical
LED driver(s) are directly mounted to upper housing thermal pad for optimal thermal performance. Standard 0-10V dimming drivers and Cooper Lighting Solutions' proprietary surge protection module are designed to withstand 10kV of transient line surge. Drivers operate at 120-277V 50/60Hz with 347V/60Hz or 480V/60Hz operation optional. Suitable for ambient temperature applications as low as -40°C (40°F) to 40°C (104°F). Limited high ambient options allow for 50°C operation.

Controls
The Arbor LED luminaire control options are designed to be simple and cost-effective ASHRAE and California Title 24 compliant solutions. The ANSI C136.41 compliant NEMA 7-PIN receptacle enables wireless dimming when used with compatible photocontrol. See control options page for more details.

Mounting
Fitter assembly mounts over 2-3/8" O.D. tenon and is secured via six concealed stainless steel set screws. Design of fitter provides seamless transition to 3" O.D. round pole top. Additional mounting accessories include a single fixture arm mount, twin fixture arm mount and wall mount arm. Additional pole mount accessories mount to a 3" x 4" long tenon for 4" - 5" O.D. poles tops. For existing 2-3/8" tenons an adapter is shipped standard.

Finish
Cooper Lighting Solutions ("CLS") utilizes premium ultra-weatherable TGIC based polyester powder coatings that are specifically formulated to withstand extended outdoor exposure. The powders are formulated exclusively for CLS 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. Options to meet Buy American Act requirements.

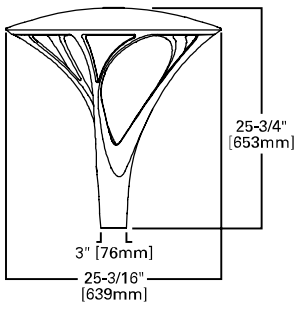
Warranty
Five-year warranty.

ARB ARBOR POST TOP

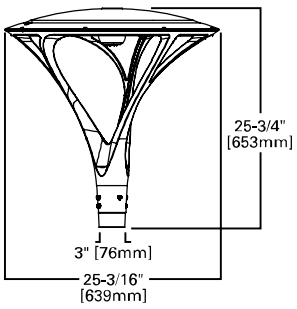
DECORATIVE LUMINAIRE

DIMENSIONS

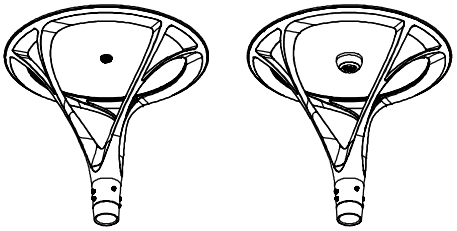
Pole Mount



Pole Mount with WaveLinx



Pole Mount with WaveLinx



CERTIFICATION DATA
UL/cUL Listed
IEC 60529 IP66 Housing
ASTM B117 SaH Spray Tested
ASTM A3560 Low Cooper Alloy
ISO 9001
Dark Sky Approved (3000K CCT and warmer only)
ANSI C136.31 3G Vibration Tested (Post Top)
ANSI C136.31 1.5G Vibration Tested (Twin Mount / Accessory Arm Mount)

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V 50/60Hz, 347V/60Hz, 480V/60Hz
40°C Ambient Temperature Rating
As low as -40°C (-40°F) minimum temperature
*See MINIMUM TEMPERATURE table

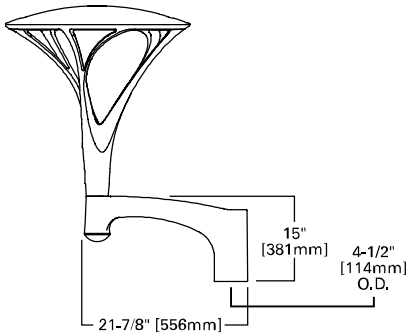
EPA
Effective Projected Area: (Sq. Ft.) 0.9

Approximate Net Weight:
37 lbs. [16.8 kgs.]

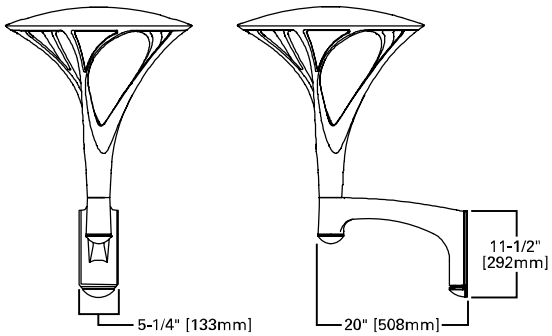
COOPER Lighting Solutions

MOUNTING CONFIGURATIONS (WEIGHT AND EPAS INCLUDES FIXTURE)

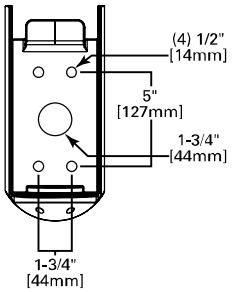
Single Arm Mount (ARSA-XX)
Weight: 56 lbs. [25.45 kgs.]
EPA: 1.7 Sq. Ft.



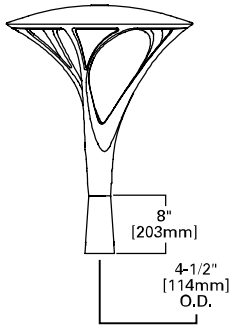
Wall Mount Arm (ARWM-XX)
Weight: 57 lbs. [25.91 kgs.]
EPA: 1.8 Sq. Ft.



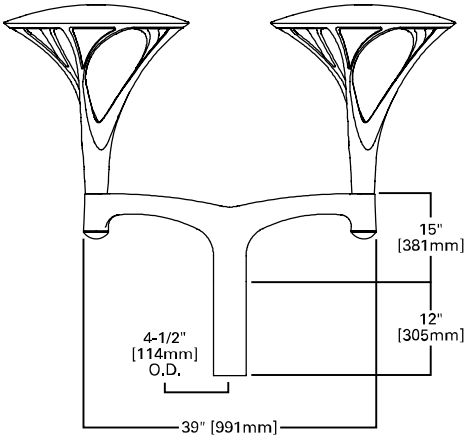
Wall Mount Arm Drill Pattern



Post Top Adapter (ARPA4-XX)
Weight: 41 lbs. [18.63 kgs.]
EPA: 1.2 Sq. Ft.



Twin Arm Mount (ARTA15-XX)
Weight: 114 lbs. [51.81 kgs.]
EPA: 3.45 Sq. Ft.

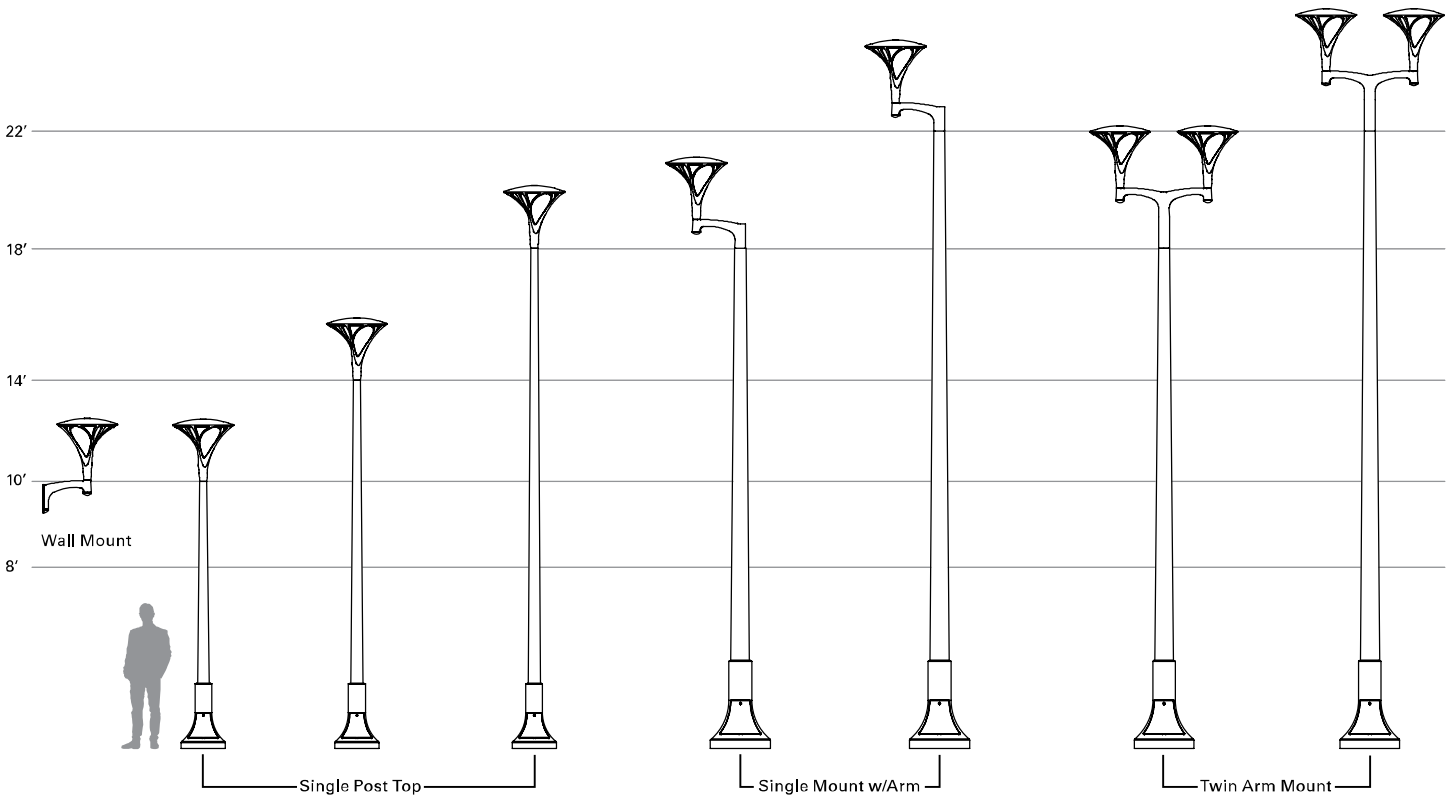


MOUNTING REQUIREMENTS CHART

Tenon O.D. (Inches)	**2-3/8" Tenon**		
Pole Top O.D. (Inches)	**3"**	**4"**	**5"**
Post Top	Standard	Spacer (Provided) & ARPA4-XX (Order Separately)	Spacer (Provided) & ARPA4-XX (Order Separately)
Single Arm Mount	Spacer (Provided)	Spacer (Provided)	Spacer (Provided)

Tenon O.D. (Inches)	**3" Tenon**		
Pole Top O.D. (Inches)		**4"**	**5"**
Post Top		ARPA4-XX (Order Separately)	ARPA4-XX (Order Separately)
Single Arm Mount		Standard	Standard
Twin Mount		Standard	Standard

POLE CONFIGURATIONS (ARP DECORATIVE POLE SHOWN)



ORDERING INFORMATION

Sample Number: ARB-B2-LED-D1-T2-GM

Product Family [1,2]	Lumens [3]	Lamp Type	Voltage	Distribution	Color [7]
ARB=Arbor Post Top **BAA-ARB**=Arbor Post Top Buy American Act Compliant [25]	**B1**=Nominal 2,300 Lumens **B2**=Nominal 4,500 Lumens **B3**=Nominal 8,500 Lumens **B4**=Nominal 9,500 Lumens [4]	**LED**=Solid State Light Emitting Diodes	**D1**=Dimming Driver (120-277V) **347**=347V [5] **480**=480V [5,6]	**T2**=Type II **T3**=Type III **T4**=Type IV **T5**=Type V	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White

Options (Add as Suffix)	Accessories (Order Separately) [19,26]
7030=70 CRI / 3000K CCT [8] **7035**=70 CRI / 3500K CCT [8] **8030**=80 CRI / 3000K CCT [8] **8035**=80 CRI / 3500K CCT [8] **AMB**=Amber 590nm [11,27] **20MSP**=20kV MOV Surge Protective Device **20K**=20kV UL 1449 Fused Surge Protective Device **PC**=Button Type Photocontrol **PER**=NEMA 3-PIN Twistlock Photocontrol Receptacle **PER7**=NEMA 7-PIN Twistlock Photocontrol Receptacle **HA**=50°C High Ambient Temperature [9] **SPB1**=Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting [23] **SPB2**=Dimming Occupancy Sensor with Bluetooth Interface, 8'-20' Mounting [23] **SPB4**=Dimming Occupancy Sensor with Bluetooth Interface, 21'-40' Mounting [23] **MS-L08**=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height [10,11] **MS-L20**=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height [10,11] **MS-L40W**=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height [10,11] **MS/DIM-L08**=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height [10,11] **MS/DIM-L20**=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height [10,11] **MS/DIM-L40W**=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height [10,11] **ZD**=DALI-enabled 4-PIN Twistlock Receptacle [10,12,13,14,29,30] **ZW**=Wavelinx-enabled 4-PIN Twistlock Receptacle [10,12,13,29,30] **SWPD4WH**=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, White [10,12,13,15,19,29,30] **SWPD5WH**=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, White [10,12,13,15,19,29,30] **LWR-LW**=Enlighted Wireless Sensor, Wide Lens for 8' - 16' Mounting Height [10,16] **LWR-LN**=Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height [10,16] **5LTD**=Fifth Light Dali Driver [10,17] **DIM**=0-10V External Dimming Leads [10,18] **VS**=Tempered Glass Vandal Shield **CC**=Coastal Construction [24] **SPBL2**=FDP-301-L2 (Wattstopper DALI sensor) **SPBL4**=FDP-301-L7 (Wattstopper DALI sensor) **TH**=Toolless hardware **F**=Single Fuse [28]	**ARSA-XX**=Single Pole Mount Arm [20] **ARWM-XX**=Wall Mount Arm **ARTA15-XX**=Twin Mount Bracket [21] **ARPA4-XX**=Pole Adapter 4" O.D. Pole **FSIR-100**=Wireless Configuration Tool for Occupancy Sensor [21] **SWPD4WH**=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, White [13,15,19,29] **SWPD5WH**=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, White [13,15,19,29] **WOLC-7P-10A**=Wavelinx Outdoor Control Module (7-PIN) [10,22]

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 information.
2. Fixture slipfits over standard 2-3/8" tenon. 3" O.D. tenon when used with a ARPA4-XX 4" O.D. pole adapter.
3. Standard 4000K CCT, nominal 70CRI.
4. B4 only available with Type V distribution.
5. Requires the use of a step down transformer.
6. 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).
7. Custom and RAL color matching available upon request. Consult your lighting representative for more information.
8. Extended lead times apply. Use dedicated IES files when performing layouts.
9. Not available with B3 lumen package in Type II, III, or IV distributions.
10. Controls system is not available with photocontrol (PC), photocontrol receptacle (PER or PER7), or controls systems MS, LWR or DIM.
11. Not available with HA option.
12. Sensor passive infrared (PIR) may be overly sensitive below -20°C (-4°F).
13. For device to be field-configurable, requires WAC Gateway components WAC-POE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more WaveLinx application information.
14. Not available on B1 or B4 lumen packages.
15. Requires 4-PIN twistlock receptacle (ZD or ZW) option.
16. Enlighted wireless sensors are factory installed and require network components LWP-EM-1, LWP-GW-1, and LWP-PoE8 in appropriate quantities. See website for application information.
17. Not available in B4 lumen package.
18. Low voltage control leads brought 18" outside fixture.
19. Replace XX with paint color.
20. Fits on 3" O.D. x 4" long tenon for nominal 4-1/2" O.D. pole top.
21. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information.
22. Requires 7-PIN NEMA twistlock photocontrol receptacle (PER7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS, ZW, ZD or LWR). Operates on 120-347V input voltages.
23. Smart device with mobile application required to change system defaults. See controls section for details.
24. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.
25. Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
26. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
27. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose Lumen Package B1. See IES files for photometric performance.
28. Must specify voltage (120V, 277V, or 347V) to fuse the single hot leg.
29. Not available with 5LTD option.
30. If ZD or ZW only, shorting cap will be installed on 4-pin receptacle.

POWER AND LUMENS

Lumen Package		**B1**	**B2**	**B3**	**B4**
Drive Current					
Power Wattage (Watts)		24W	48W	96W	99W
Input Current (mA) @ 120V		200	400	800	830
Input Current (mA) @ 208V		120	240	470	480
Input Current (mA) @ 240V		100	200	400	420
Input Current (mA) @ 277V		90	180	350	360
Power Wattage (Watts)		26W	53W	107W	108W
Input Current (mA) @ 347V		79	161	325	328
Input Current (mA) @ 480V		58	117	235	237
Optics					
Type II	Lumens	2,045	3,994	7,362	--
	BUG Rating	B1-U0-G1	B1-U0-G2	B3-U0-G3	--
Type III	Lumens	2,324	4,534	8,451	--
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	--
Type IV	Lumens	2,408	4,691	8,740	--
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	--
Type V	Lumens	2,311	4,529	8,511	9,464
	BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G3	B3-U0-G3

LUMEN MULTIPLIER

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

LUMEN MAINTENANCE

Ambient Temperature	**TM-21 Lumen Maintenance** (60,000 Hours)	**Calculated L70** (Hours)
25°C	>91%	>230,000
40°C	>88%	>172,000
50°C	>86%	>142,000

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

COLOR TEMPERATURE

Color Temperature (CCT)	**CRI** (Nominal)	**Multiplier**
4000	70	1.00
3000	80	0.91

MINIMUM AMBIENT TEMPERATURE

Lumen Package	**Temperature**
B1	-40°C
B2	-35°C
B3	-35°C
B4	-40°C
All DALI powered lumen packages	-20°C

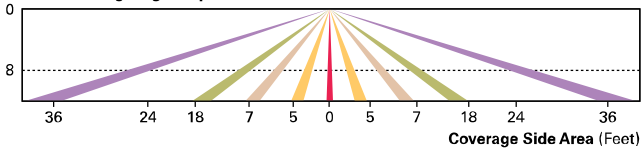
CONTROL OPTIONS

0-10V (D) The dimming option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

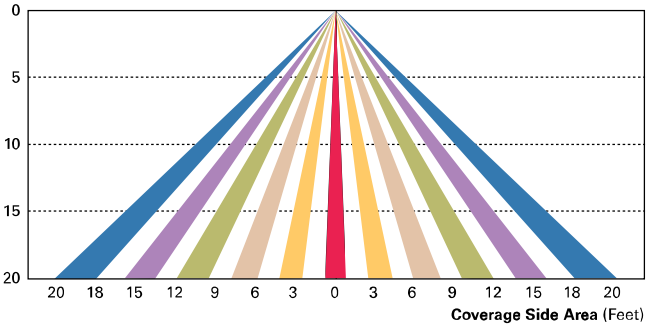
Photocontrol (PER and PER7) Photocontrol receptacles provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

Dimming Occupancy Sensor (SPB, MS/DIM-LXX and MS-LXX) These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM occupancy sensors require the FSIR-100 programming tool to adjust factory defaults.

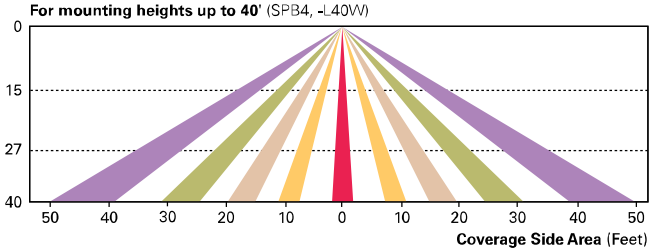
For mounting heights up to 8' (SPB1, -L08)



For mounting heights up to 20' (SPB2, -L20)



For mounting heights up to 40' (SPB4, -L40W)

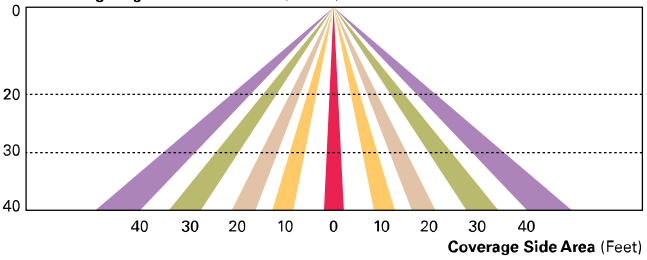


WaveLinx Wireless Control and Monitoring System Available in 7-PIN or 4-PIN configurations, the WaveLinx Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. Use the WaveLinx Mobile application for set-up and configuration.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

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

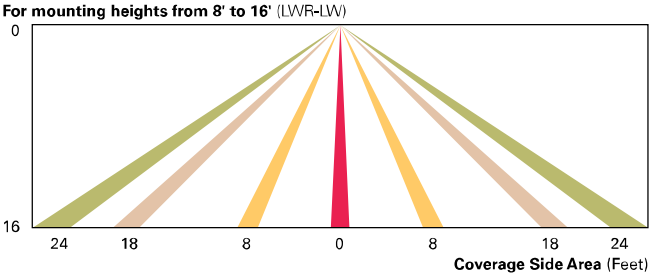
WaveLinx Wireless Sensor (SWPD4 and SWPD5) These outdoor sensors offer passive infrared (PIR) occupancy and a photocell for closed loop daylight sensing. These sensors can be factory installed or field-installed via simple, tool-less integration into luminaires equipped with the Zhaga Book 18 compliant 4-PIN receptacle (ZD or ZW). These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or daylight harvesting that is factory-enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.

For mounting heights from 16' to 40' (SWPD)

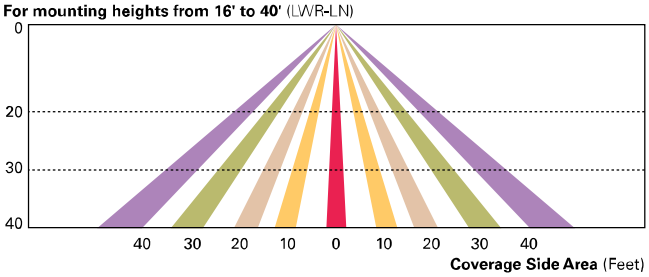


Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN) The Enlighted System is a connected lighting solution that combines LED luminaires with an integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of other resources beyond lighting.

For mounting heights from 8' to 16' (LWR-LW)



For mounting heights from 16' to 40' (LWR-LN)



TYPE SL2 POLE
WILDHORSE TOWNHOMES
LOT 2A-2

ARP ALUMINUM ROUND TAPERED DECORATIVE

FEATURES

- Tapered aluminum shaft spun from seamless 6063 alloy aluminum
- T6 four-bolt anchorage configuration provided
- Anchor bolt per ASTM F1554 Grade 55 with (2) hex nuts, (2) flat washers
- Cast 356 alloy aluminum base with access door
- 10' - 22' mounting heights
- Tenon mount only
- Options to meet Buy American and other domestic preference requirements

DESIGN CONSIDERATIONS

Wind induced vibrations resulting from steady, unidirectional winds and other aerodynamic forces, as well as vibration and coefficient of height factors for non-grounded mounted installations (e.g., installations on bridges or buildings) are not included in this document. The information contained herein is for general guidance only and is not a replacement for professional judgement. Consult with a professional, and local and federal standards, before ordering to ensure product is appropriate for the intended purpose and installation location. Also, please review Cooper Lighting Solutions' Light Pole White Paper for risk factors and design considerations. Learn more.

Specifications and dimensions subject to change without notice. Consult your lighting representative at Cooper Lighting Solutions or visit www.cooperlighting.com for available options, accessories and ordering information.

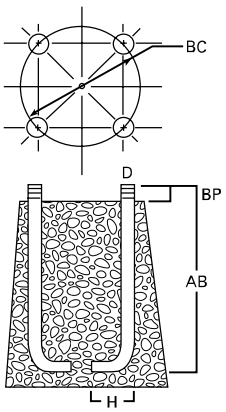
ORDERING INFORMATION

SAMPLE NUMBER: ARP5L310ABZ2

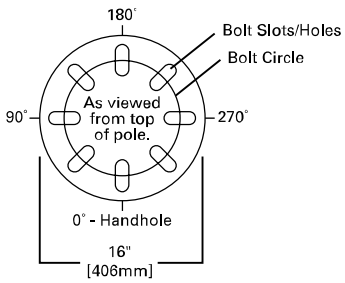
Product Family	Shaft Size (Inches)[1]	Wall Thickness (Inches)	Pole Top Diameter (Inches)	Mounting Height (Feet)	Base Type	Finish	Mounting Type	Number and Location of Arms	Options (Add as Suffix)
ARP=Aluminum Round Tapered Decorative **BAA-ARP**=Aluminum Round Tapered Decorative Buy American Act Compliant[6] **TAA-ARP**=Aluminum Round Tapered Decorative Trade Agreements Act Compliant[6]	**5**=5"	**L**=0.156" **M**=0.188"	**3**=3" O.D.[4] **4**=4-1/2" O.D. **6**=4" O.D.[5]	**10**=10' **12**=12' **14**=14' **16**=16' **18**=18'[2] **22**=22'[2]	**A**=Aluminum (Round 4-Bolt Pole)	**AP**=Grey **BA**=Anodized Bronze **BK**=Black Smooth **BT**=Black Texture **BZ**=Bronze **CA**=Anodized Clear **DA**=Anodized Black **DP**=Dark Platinum **GM**=Graphite Metallic **GN**=Hartford Green **WH**=White	**2**=2-3/8" O.D. Tenon (4" Long) **5**=3" O.D. Tenon (4" Long)	**X**=None	**C**=Convenience Outlet[3] **E**=GFCI Convenience Outlet[3] **G**=Ground Lug **V**=Vibration Dampener[2]

NOTES 1. All shaft sizes nominal. **2.** Vibration damper recommended over 18 feet add suffix "V" to catalog number. **3.** Specify outlet location. Receptacle not included, provision only. **4.** Provides 3"O.D. pole top suited for Arbor Post Top. **5.** Provides 4" OD pole top suited for LuxeScape post tops. **6.**Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

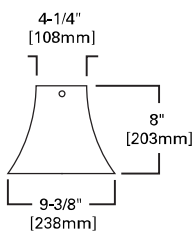
ANCHORAGE DATA



Anchor Base Detail



Access Door



Pole	Anchor Bolt and Template Package	Shaft Diameter (inches)	Bolt Circle (inches)	Number of Bolts	Bolt Size (inches)	Template Only
Aluminum Round Decorative Pole (ARP)	317AVE30	4 x 5	9	4	3/4 x 17	407040D

Effective Projected Area (18" Above Pole Top)

Mounting Height (Feet)	Catalog Number	Wall Thickness (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection (Inches)	Shaft Taper (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) (1.3 gust factor)			Max. Load (Pounds)
MH			**BC**	**BP**	**B**	**AB** [1]		**80 mph**	**90 mph**	**100 mph**	
10	ARP5L310A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	57	19.6	15.3	12.3	120
12	ARP5L312A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	62	16.1	12.5	9.9	120
14	ARP5L314A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	67	13.2	10.1	8.0	120
16	ARP5L316A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	72	10.6	8.0	6.2	120
18	ARP5L318A	0.156	9.0	3.5	5 x 3	3/4 x 17 x 3	77	8.5	6.4	4.8	120
18	ARP5M418A	0.188	9.0	3.5	5 x 4.5	3/4 x 17 x 3	83	10.1	7.7	6.1	150
22	ARP5M422A	0.188	9.0	3.5	5 x 4.5	3/4 x 17 x 3	88	6.4	4.6	3.6	150

Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com

Canada Sales
5925 McLaughlin Road
Mississauga, Ontario L5R 1B8
P: 905-501-3000
F: 905-501-3172

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.

TYPE SL3 BOLLARD
WILDHORSE TOWNHOMES
LOT 2A-2

Invue

SL3

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
General purpose symmetric distribution is 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 Cooper Lighting Solutions' 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).

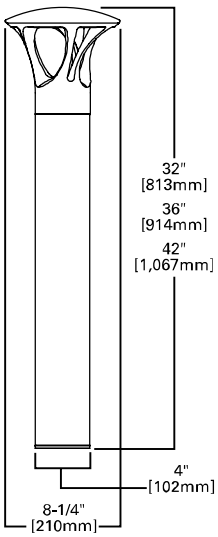
Finish
Cooper Lighting Solutions utilizes premium ultra-weatherable TGIC based polyester powder coatings that are specifically formulated to withstand extended outdoor exposure. The powders are formulated exclusively for Cooper Lighting Solutions to serve functionally as well as decorative. Good film 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. Options to meet Buy American Act requirements

Warranty
Five-year warranty.

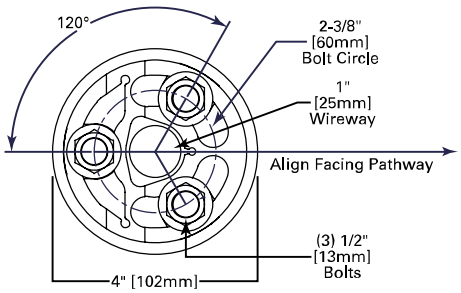
ABB ARBOR BOLLARD

PATHWAY LUMINAIRE

DIMENSIONS



BOLT CIRCLE ORIENTATION



CERTIFICATION DATA

UL/cUL Listed
IP66 Housing
ISO 9001
RoHS
Dark Sky Approved (3000K CCT and warmer only)

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.]

COOPER Lighting Solutions

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
50°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]	CRI / CCT	Source	Nominal Height	Voltage	Distribution	Color
ABB=Arbor Bollard **BAA-ABB**=Arbor Bollard Buy American Act Compliant [10]	**B1**=Mid Lumen Output **B2**=High Lumen Output	**727**=70 CRI / 2700K **8030**=80 CRI / 3000K CCT [6]	**LED**	**30**=32" **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) [11]
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 Cooper Lighting Solutions 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 Cooper Lighting Solutions for more information.
9. Contact your customer service representative at Cooper Lighting Solutions for advance shipping.
10. Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
11. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.