

**Memorandum**  
**Department of Planning**



**To:** Planning and Public Works Committee  
**From:** Mike Knight, Assistant City Planner *JMK*  
**Date:** September 2, 2021

**RE:** **Wildhorse Village, Lot 2A-1 (The Flats at Wildhorse Village) SDSP Modification Request:** A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect’s Statement of Design for a 4.9 acre tract of land located southeast of the intersection of Wild Horse Creek Road and Old Chesterfield Road. (Ward 2)

**Summary**

This request is for two modifications to the specific criteria of Ordinance 3114 associated with a Site Development Section Plan that would allow for a 266 unit multi-family building. The building is 4 stories tall, roughly 48’ in height, and contains a 405 space parking garage internal to the building hidden from the public eye. The primary building materials consist of brick (white and grey), grey metal shingles, and brushed masonry veneer.

On July 8, 2021 the project was reviewed by the Architectural Review Board. At that time, the Board made a motion to forward the Site Development Section Plan to Planning Commission with a recommendation to approve with conditions. The applicant has since fulfilled those conditions.

The project was reviewed by the Planning Commission on August 23, 2021. At that time the Commission recommended approval of the request as submitted by a vote of 9-0.

Governing ordinance 3114 states, *“that upon application from a petitioner, any performance standard provided in this Attachment "A" or required by any other District regulation or Ordinance of the City may be supplemented, modified, or altered in a Site Development Section Plan provided such supplement, modification, or alteration will further the purpose and intent of the PC&R District. A public hearing is not required in the process and recommendation by Planning Commission will be forwarded to City Council for final approval”.*

**Modification Request**

The applicant is seeking two modifications from the governing ordinance. The site specific governing ordinance requires the first floor of this building to be 12’ in height. The applicant is proposing an 11’ 7-7/8” first floor height. As designed, the first floor height uses precut dimensional lumber. In order to achieve the height requirement, there would be additional construction waste, time, and finances required to cut down

the studs according to the applicant. The full narrative of the modification request is included in the P&PW packet.

The second is in regards to the rooftop mechanical screening requirement. Ordinance 3114 states, “rooftop mechanical equipment shall be permitted on roofs within architecturally designed, fully enclosed penthouses that complement the building design”. The applicant is proposing to screen the rooftop equipment on all visible sides with materials that are an integral part of the architecture. This is the same language that exists for every development in the City’s Unified Development Code. Again the full narrative of the modification request is included in this packet.

The requested modifications were provided to the Architectural Review Board for review. The Board was supportive of both modification requests. The Board felt that visually the first floor would appear as 12’ in height and the additional waste would be unwarranted. In regards to the rooftop mechanical unit screening, the Board felt that the parapet screening was appropriate provided the location within the Wildhorse Village and the specific mechanical units required for a multi-family residential building.

As previously stated, the Planning Commission voted to approve the project as presented unanimously which included both modifications.

Once recommendation is received by the Planning and Public Works Committee, the modifications will be forwarded to the entire City Council for consideration.

Attached to this report please find a copy of the Planning Commission Staff Report, Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, Architect’s Statement of Design, and the applicant’s modification request.

Attachments: Planning Commission Staff Report  
Site Development Section Plan  
Landscape Plan  
Lighting Plan  
Architect’s Statement of Design  
Architectural Elevations  
Rendering  
Modification request



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## Planning Commission Staff Report

<b>Project Type:</b>	Site Development Section Plan
<b>Meeting Date:</b>	August 23, 2021
<b>From:</b>	Mike Knight, Assistant City Planner <i>gmK</i>
<b>Location:</b>	A 4.9 acre tract of land located southeast of the intersection of Wild Horse Creek Road and Old Chesterfield Road.
<b>Description:</b>	<b><u>Wildhorse Village, Lot 2A-1 (The Flats at Wildhorse Village) SDSP:</u></b> A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 4.9 acre tract of land located southeast of the intersection of Wild Horse Creek Road and Old Chesterfield Road.

### **PROPOSAL SUMMARY**

This request is to allow for a 266 unit multi-family building. This is the third Site Development Section Plan submitted to the City for the 18 lot development known as Wildhorse Village. The building is 4 stories tall, roughly 48' in height, and contains a 405 space parking garage internal to the building hidden from the public eye. The primary building materials consist of brick (white and grey), grey metal shingles, and brushed masonry veneer.

On July 8, 2021 the project was reviewed by the Architectural Review Board. At that time, the Board made a motion to forward the Site Development Section Plan to Planning Commission with a recommendation to approve with conditions. The applicant has since fulfilled those conditions, staff has no remaining comments, and the project is being forwarded to Planning Commission for review.



*Figure 1: Rendered Image of the Entrance*

## **HISTORY OF SUBJECT SITE**

On March 19<sup>th</sup>, 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 Planned Commercial and Residence District "PC&R" 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 submission 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 for the PC&R district including the aforementioned plans that were submitted and approved.

Year	Month	Approval	Description	Action
2008	March	ORD 2449	Consolidation of six zoning districts into one PC&R district creating Downtown Chesterfield	Subsequent site plans were never submitted under zoning regulations of Ordinance 2449
2018	Feb	ORD 2990	Text amendment removing 2.9 acres and adding 3.4 acres	Provided necessary legal description change to facilitate the development for the Aventura development to the north
	Nov	ORD 3023	Incorporated (0.4) acres into PC&R district and amended development criteria	Allowed for separate concept plans north of Wild Horse Creek Road (Category C) and south of Wild Horse Creek Road (Categories A&B).
2019	Feb	SDCP	Concept Plan for Category C	A Site Development Concept Plan, Landscape Concept Plan, Signage Concept Plan, and Lighting Fixture Concept Plan for the 22 acre phased development north of WHCR in which future individual lots may now seek approval to develop
		SDSP	Lot A of Category C	Allowed for development of a mixed-use building containing residential units, retail, and restaurant on Lot A.
2020	Feb	SDSP	Lot B of Category C	Allowed for development of a hotel and conference center on Lot B
	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

Figure 2: Historical Summary

### **STAFF ANALYSIS**

The subject site is located south of Wild Horse Creek Road (WHCR), east of its intersection with Old Chesterfield Road (OCR). The subject site is located directly south of WHCR. This roadway is classified as a major arterial in accordance to the City’s functional classification system and all facades will be highly visible to a large number of users. The area is designated City Center (Urban Transition) within the City of Chesterfield Comprehensive Land Use Plan and this development would be 4.9 acres of the 77 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.”*

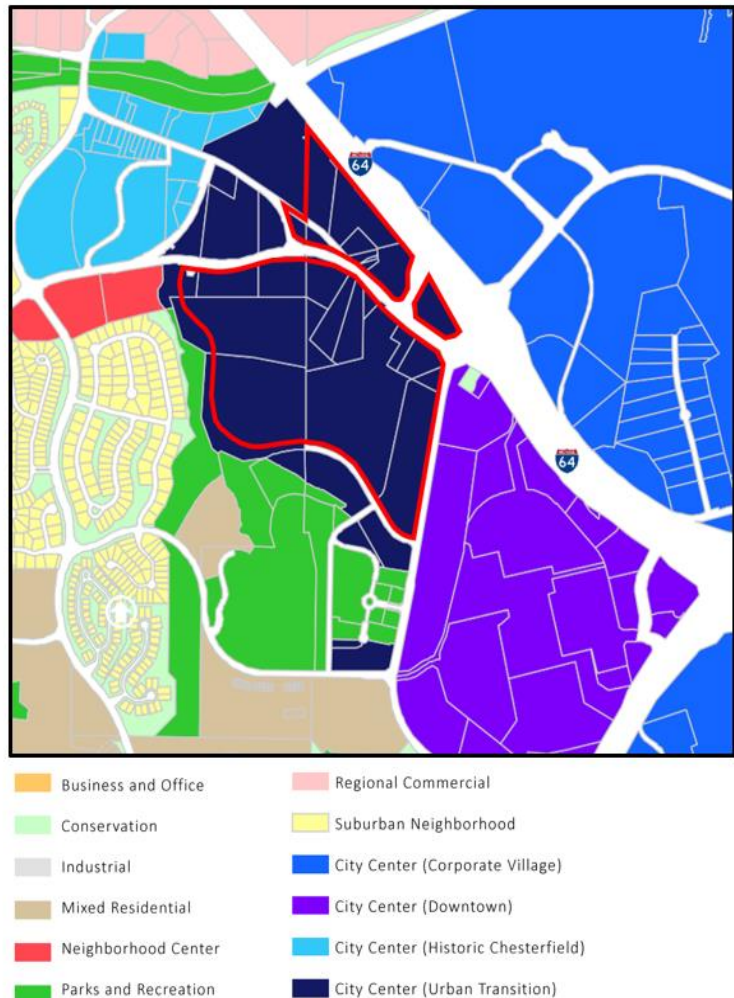


Figure 3: Comprehensive Plan- Land Use Designation

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 attached single 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 10' wide sidewalk along both the main street to the south, and Parkview terrace to the west with a 12' wide mixed use trail along Wild Horse Creek Road.

**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 an extended (60') landscape buffer along most of the frontage adjacent to Wild Horse Creek Road with an internal courtyard for the residents.

**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 be next to the entrance of the building, visible to the public realm.

**General Requirements for Site Design:**

This request is for one 266 unit multi-family building containing both an internal parking structure and an internal courtyard on a 4.9 acre tract of land. The site has one access point off the internal main street to the south, known Wildhorse Lake Blvd, with on-street parking in front of the building. The site has pedestrian accommodations circumnavigating the building with a 12' mixed use trail adjacent to Wild Horse Creek Road.

**A. Site Relationships**

This is a multi-family development that is east of an approved attached single family development, north of a programmed condo building and west of programmed mixture of residential, office, and commercial activity all within the larger Wildhorse Village development. The project is bordered to the north by two multi-family buildings (Aventura at Wild Horse Creek and Wildhorse Apartments).

**B. Circulation System and Access**

The site is accessed by the one aforementioned curb cut off Wildhorse Lake Blvd. 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 4) was provided in this packet depicting the access and circulation locations.

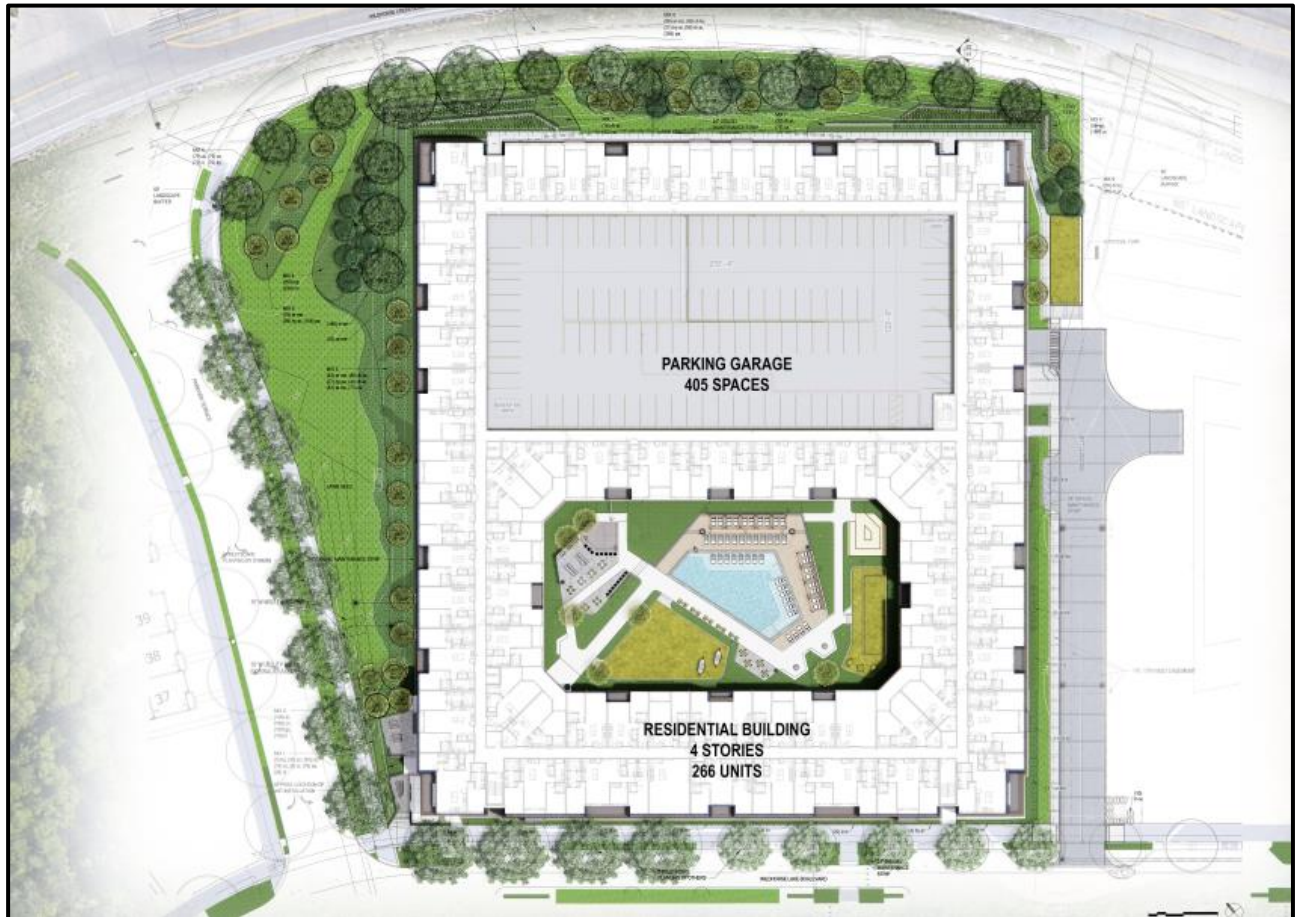


Figure 4: Color Site Plan

**C. Topography and Retaining Walls**

The site slopes from a high point at the southwest corner property line towards the northeast, falling approximately 10'. There are four retaining walls located on the site, two proposed on the northwest and two proposed on the northeast portion of the site. All of the walls are at or under 5' in height. The retaining walls will be constructed of modular masonry. Landscaping has been incorporated into the retaining walls to minimize visibility.



**General Requirements for Building Design:**

The building is 4 stories tall, roughly 48’ in height, and contains a 405 space parking garage internal to the building hidden from the public eye. The building is pushed up close to the internal roadway (Wildhorse Lake Blvd.) as required by the site specific governing ordinance. The building will be highly visible from all four facades.

**D. Scale, Design, Materials, and Color**

In recent history, three developments in close proximity have been approved and are either under construction or have 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 consisting largely of the same materials (brick, EIFS, ribbed black metal panel) 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 3114) 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 a requirement in which the applicant is seeking a modification. The ordinance requires the first floor of buildings to be a minimum of 12’ in height. The applicant is requesting an 11’ 7 7/8” first floor height.

The building is primarily brick (white and grey) for the first three stories and charcoal gray metal shingle for the fourth floor. A masonry veneer is contained around the base of the building with various recessed and protruding balconies throughout all four facades. All the balconies have a metal railing with horizontal cables. Below is an image of the building with the manufacturer, style, and color of the building materials.



Figure 5: Building Materials

### E. Landscape Design

The site contains 19 deciduous canopy trees (29%), 13 evergreen trees (20%), and 28 deciduous understory trees (51%). The site also contains 73 deciduous shrubs and 76 evergreen shrubs. The growth rates for the trees are 23% slow, 49% moderate, and 28% fast. The most common tree on the site is the American Arborvitae and the most common shrub is the Arrowwood Viburnum. The site's heaviest landscaping is along Wild Horse Creek Road along the north façade.

### F. Screening

The residential units will be screened by the parapet walls. The applicant has provided a roof-top screening exhibit which is included in the packet. The units will be located above the residential units as depicted in the image below (Figure 6.)

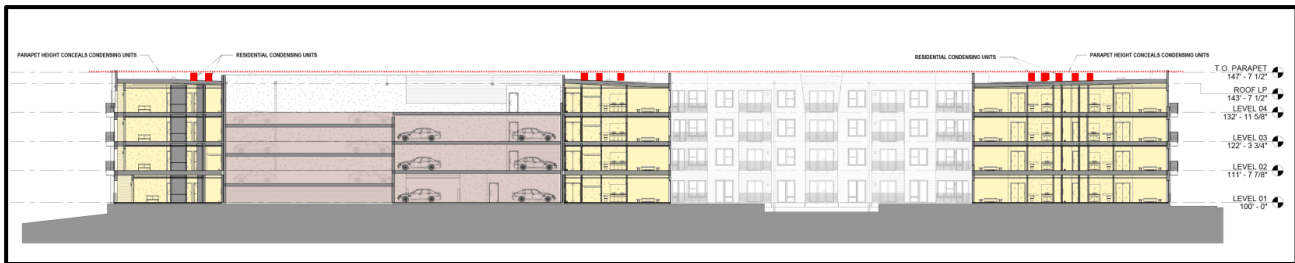


Figure 6: Roof Top Units

A dog run consisting of an artificial turf is located at the northeast corner of the property. The dog run will be enclosed by a decorative black metal fencing. An image of the fencing is included in the packet.

### 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 two bollards that are illuminated located in the southeast corner of the site near the entrance.

## MODIFICATION

The applicant is seeking two modifications from the governing ordinance. One is the previously mentioned first floor height requirement. The site specific governing ordinance requires the first floor of this building to be 12' in height. The applicant is proposing an 11' 7-7/8" first floor height. As designed, the first floor height uses pre-cut dimensional lumber. In order to achieve the height requirement, there would be additional construction waste, time, and finances required to cut down the studs according to the applicant. The full narrative of the modification request is included in this packet.

The second is in regards to the rooftop mechanical screening requirement. Ordinance 3114 states, "rooftop mechanical equipment shall be permitted on roof within architecturally designed, fully enclosed penthouses that complement the building design". The applicant is proposing to screen the rooftop equipment on all visible sides with materials that are an integral part of the architecture.

This is the same language that exists for every development in the City's Unified Development Code. Again the full narrative of the modification request is included in this packet.

The requested modifications were provided to the Architectural Review Board for review. The Board was supportive of both modification requests. The Board felt that visually the first floor would appear as 12' in height and the additional waste would be unwarranted. In regards to the rooftop mechanical unit screening, the Board felt that the parapet screening was appropriate provided the location within the Wildhorse Village and the specific mechanical units required for a multi-family residential building.

### **ARCHITECTURAL REVIEW BOARD**

The project was reviewed by the Architectural Review Board on July 08, 2021. 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 Wildhorse Village Lot 2A-1 to the Planning Commission with a recommendation to approve with the following conditions:

- Provide a color for the rooftop units that is color compatible with the surrounding materials
- Additional handrailings added to address building code compliance should be consistent with the existing railings depicted for the project.
- Provide the decibel levels within the parking garage.
- Evaluate the base of the building and incorporate additional material and/or color to soften the large monochromatic space of the white brick building

The applicant has since resubmitted and fulfilled all four conditions. All of the updates have been included within the Planning Commission packets.

### **RENDERING**

Below in (Figure 7) and on the following page (Figure 8) are renderings of two prominent viewpoints that can be seen when traveling east and west on Wild Horse Creek Road.



*Figure 7: Rendering (Traveling West on WHCR)*



*Figure 8: Rendering (Traveling East on WHCR)*

### **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 two modifications to the site’s performance standards, which is a process specifically described within the site specific governing ordinance. Staff recommends approval of the Site Development Section Plan on this submittal for Wildhorse Village, Lot 2A-1 (The Flats at Wildhorse Village).

### **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 the Wildhorse Village, Lot 2A-1 (The Flats 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-1 (The Flats 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.**

June 16, 2021

Via E-Mail ([jknight@chesterfield.mo.us](mailto:jknight@chesterfield.mo.us))

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

Attention: Mr. Mike Knight – Assistant City Planner

Re: Wildhorse Village Lot 2A-1 (SDSP letter dated 06/04/2021)  
(Stock Project No. 220-6873)

Dear Mike,

Pursuant to your City letter dated 06/04/21, we are respectfully request the following modification to City of Chesterfield Ordinance No. 3114

**Modification Request to City of Chesterfield Ordinance No. 3114**  
**Attachment A -Section IB.1-Building Floor Height**

Specifically, our request is as follows:

We request a modification to Section IB.1-Building Floor Height of Ordinance No. 3114, which 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 an 11’-7 7/8” 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.

Sincerely,



George M. Stock, P.E.  
President

**STOCK | & ASSOCIATES**  
**Consulting Engineers, Inc.**

June 16, 2021

Via E-Mail ([jknight@chesterfield.mo.us](mailto:jknight@chesterfield.mo.us))

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

Attention: Mr. Mike Knight – Assistant City Planner

Re: Wildhorse Village Lot 2A-1 (SDSP letter dated 06/04/2021)  
(Stock Project No. 220-6873)

Dear Mike,

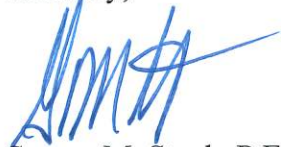
Pursuant to your City letter dated 06/04/21, we are respectfully request the following modification to City of Chesterfield Ordinance No. 3114

**Modification Request to City of Chesterfield Ordinance No. 3114**  
**Attachment A -Section IG.5**

Specifically, our request is as follows:

We request a modification to Section IG.5 of Ordinance No. 3114, which 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. Parapet walls or screen walls 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, P.E.  
President

# WILDHORSE VILLAGE LOT 2A-1

## SITE DEVELOPMENT SECTION PLAN

A TRACT OF LAND BEING LOCATED IN U.S. SURVEYS 123, 415 AND 2031  
IN TOWNSHIP 45 NORTH RANGE 4 EAST, OF THE FIFTH PRINCIPAL MERIDIAN  
CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI  
CATEGORY A - ORDINANCE 3114

### ABBREVIATIONS

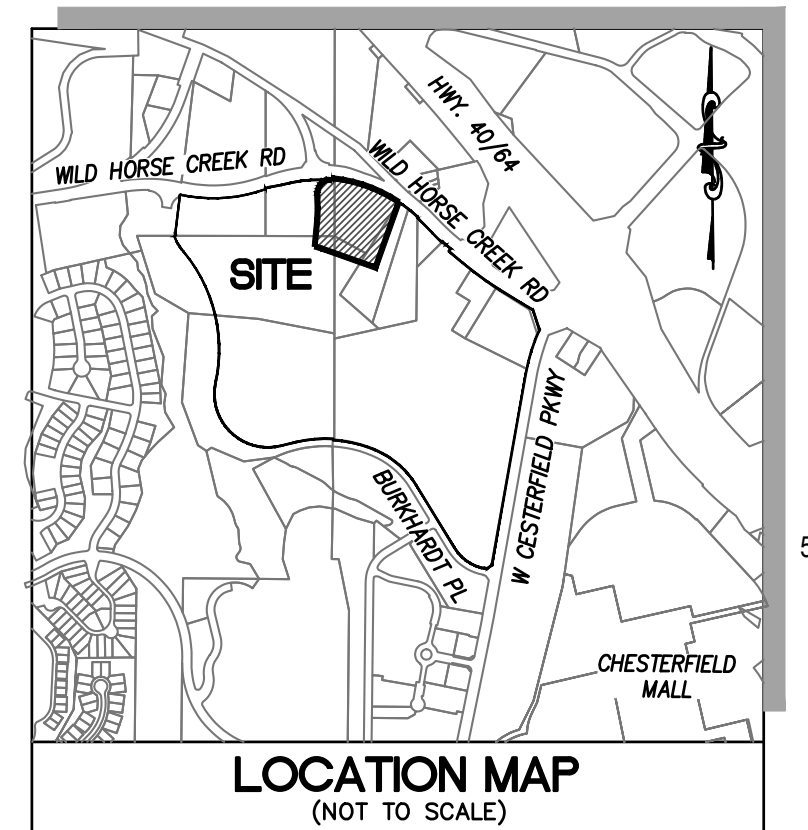
ATO	- ADJUST TO GRADE
B.C.	- BACK OF CURB
B.O.	- BY OTHERS
C.O.	- CLEANOUT
D.B.	- DEED BOOK
E.	- ELEVATION
EX.	- EXISTING
F.C.	- FACE OF CURB
FF	- FINISHED FLOOR
FL	- FLOWLINE
FM	- FORCE MAIN
FND.	- FOUND
G.	- GAS
H.W.	- HIGH WATER
L.F.B.	- LOW FLOW BLOCKED
M.H.	- MANHOLE
N.W.F.	- NOW OR FORMERLY
NWL	- NORMAL WATER LEVEL
P.B.	- PLAT BOOK
PADE	- PADE
PR.	- PROPOSED
PVC	- POLYVINYL CHLORIDE PIPE
R.C.P.	- REINFORCED CONCRETE PIPE
R.W.	- RIGHT-OF-WAY
S.L.C.	- ST. LOUIS COUNTY
SQ.	- SQUARE
T.	- TELEPHONE CABLE
T&E	- TO BE ABANDONED
TBR	- TO BE REMOVED
T&R	- TO BE REMOVED AND REPLACED
T&R&E	- TO BE REMOVED AND RELOCATED
TYP.	- TYPICAL
UIP	- USE IN PLACE
UN	- UNLESS OTHERWISE NOTED
VCP	- VITRIFIED CLAY PIPE
W	- WATER
(86'W)	- RIGHT-OF-WAY WIDTH

### EXISTING LEGEND

	BENCH MARK
	FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT
	WATER MANHOLE
	WATER METER
	WATER VALVE
	POST INDICATOR VALVE
	CLEAN OUT
	STORM MANHOLE
	GRADED MANHOLE
	STORMWATER INLET
	GRADED STORMWATER INLET
	SANITARY MANHOLE
	BREEZ
	TRAFFIC SIGNAL
	PARKING METER
	STREET SIGN
	SPRINKLER
	MAIL BOX

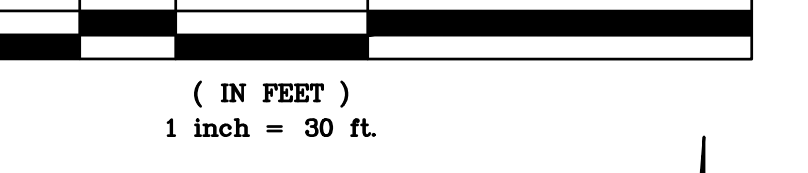
### PROPOSED LEGEND

	PROPOSED CONTOUR
	PROPOSED SPOT
	PROPOSED STORM
	PROPOSED SANITARY
	PROPOSED UTILITIES
	LOT ADDRESS



### SHEET INDEX

SDSP-1.0	SITE DEVELOPMENT SECTION PLAN
SDSP-2.0	SITE DEVELOPMENT SECTION PLAN
A3.1	BUILDING ELEVATIONS
L1.1	PLANTING PLAN
L2.1	PLANTING SCHEDULE
L2.2	PLANTING DETAILS
E1.1	SITE LIGHTING PLAN
E1.2	SITE LIGHTING CALCULATION PLAN



### PERTINENT DATA

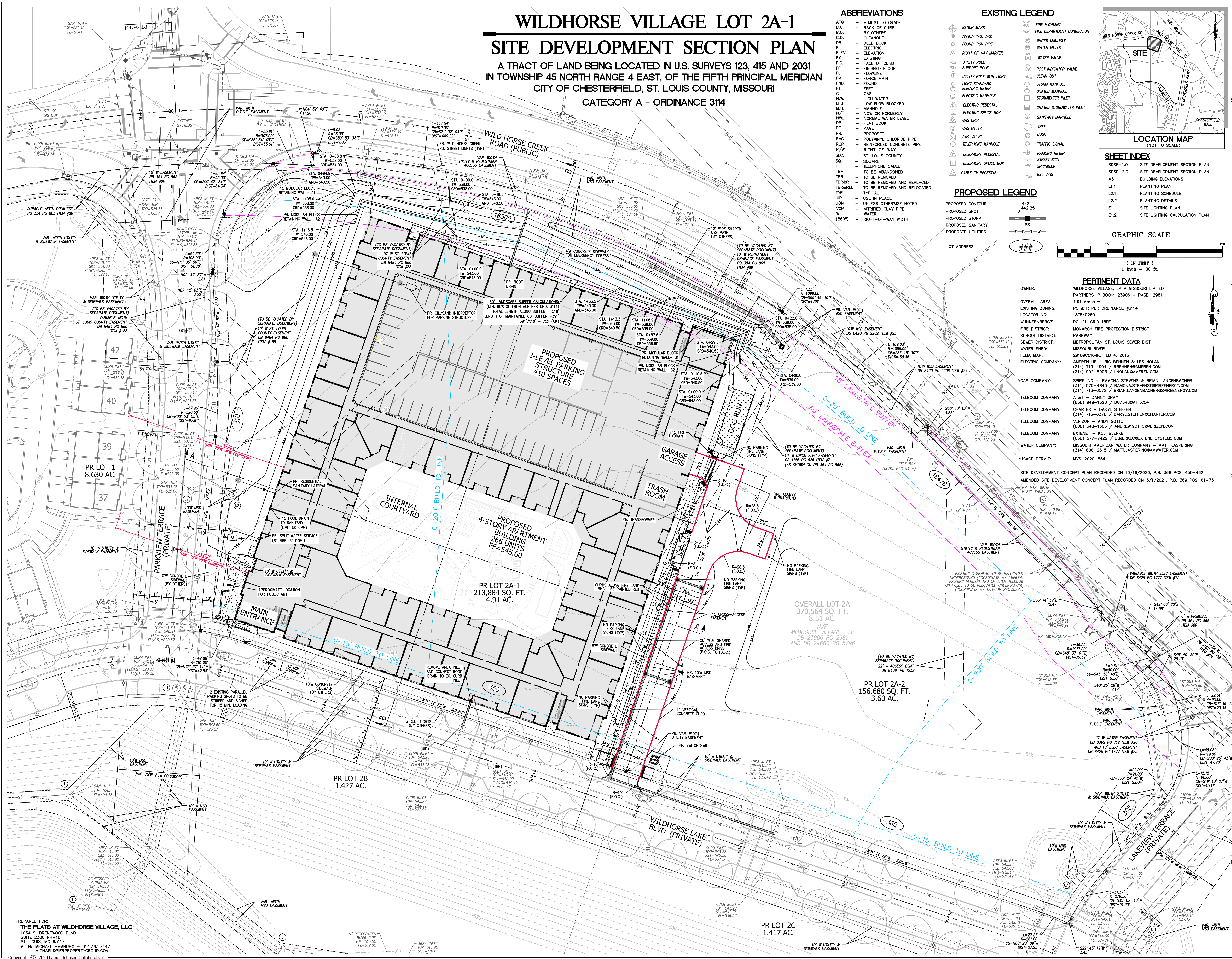
OWNER: WILDHORSE VILLAGE, LP A MISSOURI LIMITED  
PARTNERSHIP BOOK: 23906 - PAGE: 2981  
4.91 Acres ±  
PC & R PER ORDINANCE 3114  
187640260  
PC 21, GRID 18EE  
MONARCH FIRE PROTECTION DISTRICT  
PARKWAY  
METROPOLITAN ST. LOUIS SEWER DIST.  
MISSOURI RIVER  
29189CO164K, FEB 4, 2015

GAS COMPANY: AMEREN UE - RIC BEHNEN & LES NOLAN  
(314) 713-4804 / RBENNE@AMEREN.COM  
(314) 992-8903 / LNOLAN@AMEREN.COM

TELECOM COMPANY: SPIRE INC - RAMONA STEVENS & BRIAN LANGENBACHER  
(314) 575-4843 / RAMONA.STEVENS@SPIREENERGY.COM  
(314) 713-6572 / RAMONA.LANGENBACHER@SPIREENERGY.COM  
AT&T - DANNY CRAY  
(636) 949-1320 / DG754@ATT.COM  
TELECOM COMPANY: CHARTER - DARYL STEFFEN  
(314) 713-6378 / DARYL.STEFFEN@CHARTER.COM  
TELECOM COMPANY: VERIZON - ANDY GOTTO  
(636) 348-1503 / ANDREW.GOTTO@VERIZON.COM  
TELECOM COMPANY: EXTENET - KOA BURKE  
(636) 577-7429 / BBERKE@EXTENETSYSTEMS.COM  
WATER COMPANY: MISSOURI AMERICAN WATER COMPANY - MATT JASPERING  
(314) 606-2615 / MATT.JASPERING@MAWATER.COM  
MVS-2020-554

USAGE PERMIT: MVS-2020-554

SITE DEVELOPMENT CONCEPT PLAN RECORDED ON 10/16/2020, P. 368 PGS. 450-462.  
AMENDED SITE DEVELOPMENT CONCEPT PLAN RECORDED ON 3/1/2021, P. 369 PGS. 61-73



ARCHITECT OF RECORD  
**Lamar Johnson Collaborative**  
DESIGN ARCHITECT  
**ARCTURIS**

Civil Engineer  
**Stock & Associates**  
Consulting Engineers, Inc.  
330 Chesterfield Business Parkway  
St. Louis, MO 63103  
PH: (636) 538-9300  
FAX: (636) 538-9300  
E-mail: geoff@stockandassociates.com  
Web: www.stockand.com

## WILDHORSE VILLAGE LOT 2A-1

THE FLATS AT WILDHORSE VILLAGE LLC  
350 WILDHORSE LAKE BLVD CHESTERFIELD, MO

### DRAWING ISSUE

DESCRIPTION	DATE
SOSP SUBMITTAL	21-04-28
CITY COMMENTS	21-05-28
LAY-BY LOADING	21-06-16

STOCK #	220-6873
ORD. #	3114
BASE MAP	18T
MSP #	21MSD-00286
USAGE	MVS-2020-554
MDNR	MORA16776
SLC	

DRAWING TITLE  
**SITE DEVELOPMENT SECTION PLAN**

DRAWING NO.  
**SDSP-1.0**

Job #  
**20.0243**

PREPARED FOR:  
**THE FLATS AT WILDHORSE VILLAGE, LLC**  
1034 S. BRENTWOOD BLVD  
SUITE 2300 PH-1D  
ST. LOUIS, MO 63117  
ATTN: MICHAEL HAMBURG - 314.363.7447  
MICHAEL@PROPERTYPARTNERSHIP.COM

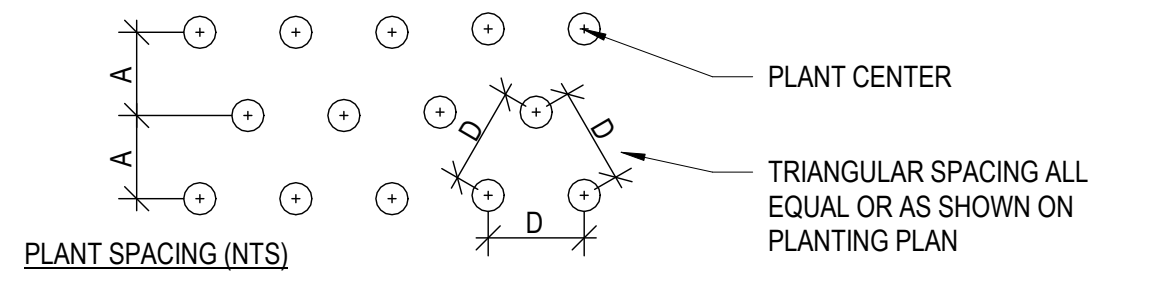






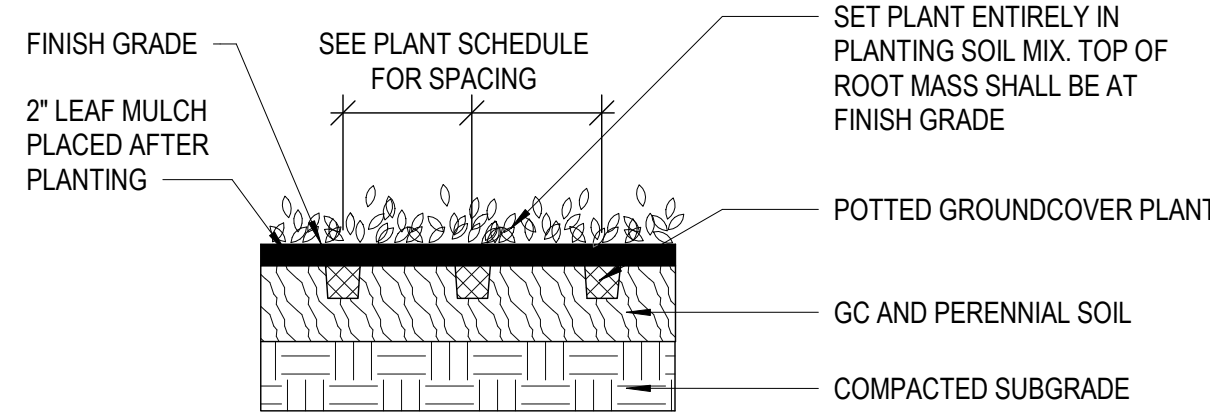




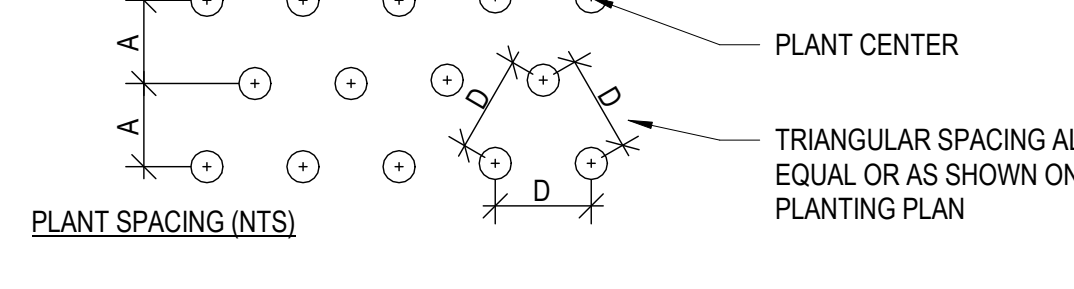


SPACING 'D'	ROW 'A'	PLANTS PER SQ. FT.	NOTES:
12" O.C.	10.4"	1.15	PLANT QUANTITIES WERE DETERMINED BY MULTIPLYING AREA (SQ. FT.) BY NUMBER OF PLANTS PER SQ. FT. FOR REQUIRED SPACING
10" O.C.	8.7"	1.66	
8" O.C.	6.9"	2.60	
6" O.C.	5.2"	4.00	

QUANTITY OF GROUND COVER AND SPACING AS NOTED IN PLANTING SCHEDULE

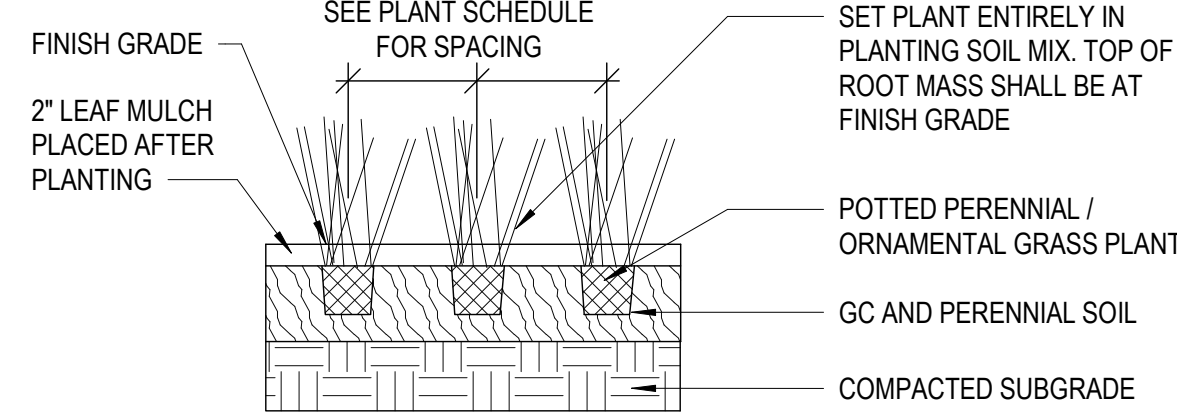


**E4**  
L2.2  
**GROUND COVER PLANTING**  
1/2" = 1'-0"

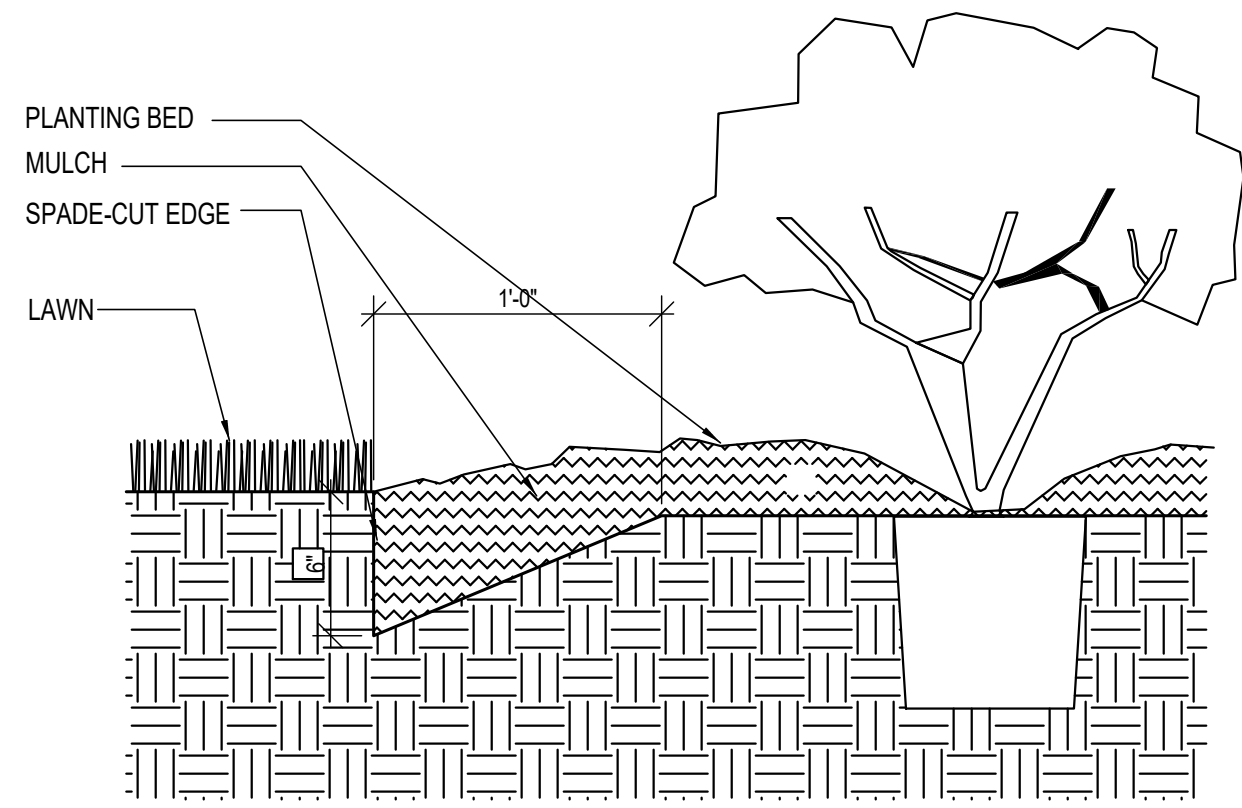


SPACING 'D'	ROW 'A'	PLANTS PER SQ. FT.	NOTES:
24" O.C.	20.8"	0.29	PLANT QUANTITIES WERE DETERMINED BY MULTIPLYING AREA (SQ. FT.) BY NUMBER OF PLANTS PER SQ. FT. FOR REQUIRED SPACING
18" O.C.	15.6"	0.50	
12" O.C.	10.4"	1.15	
10" O.C.	8.7"	1.66	

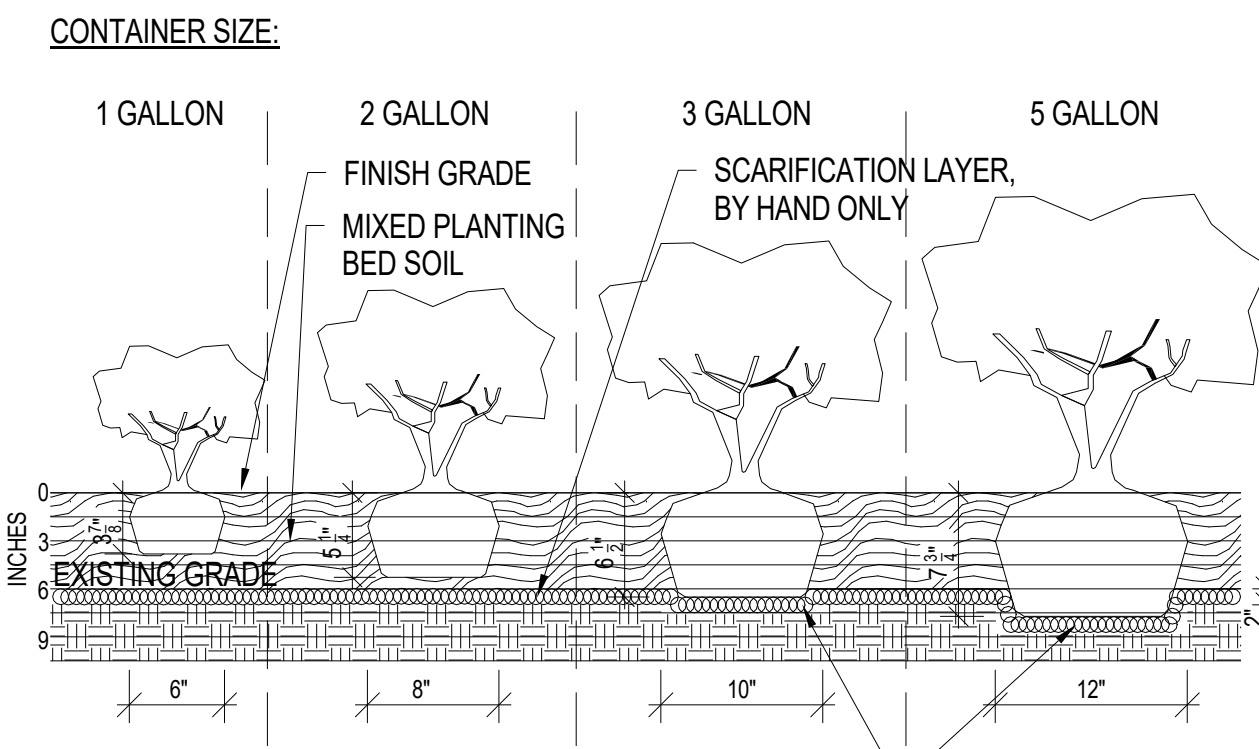
QUANTITY OF GROUND COVER AND SPACING AS NOTED IN PLANTING SCHEDULE



**C4**  
L2.2  
**PERENNIAL AND GRASS PLANTING**  
1/2" = 1'-0"



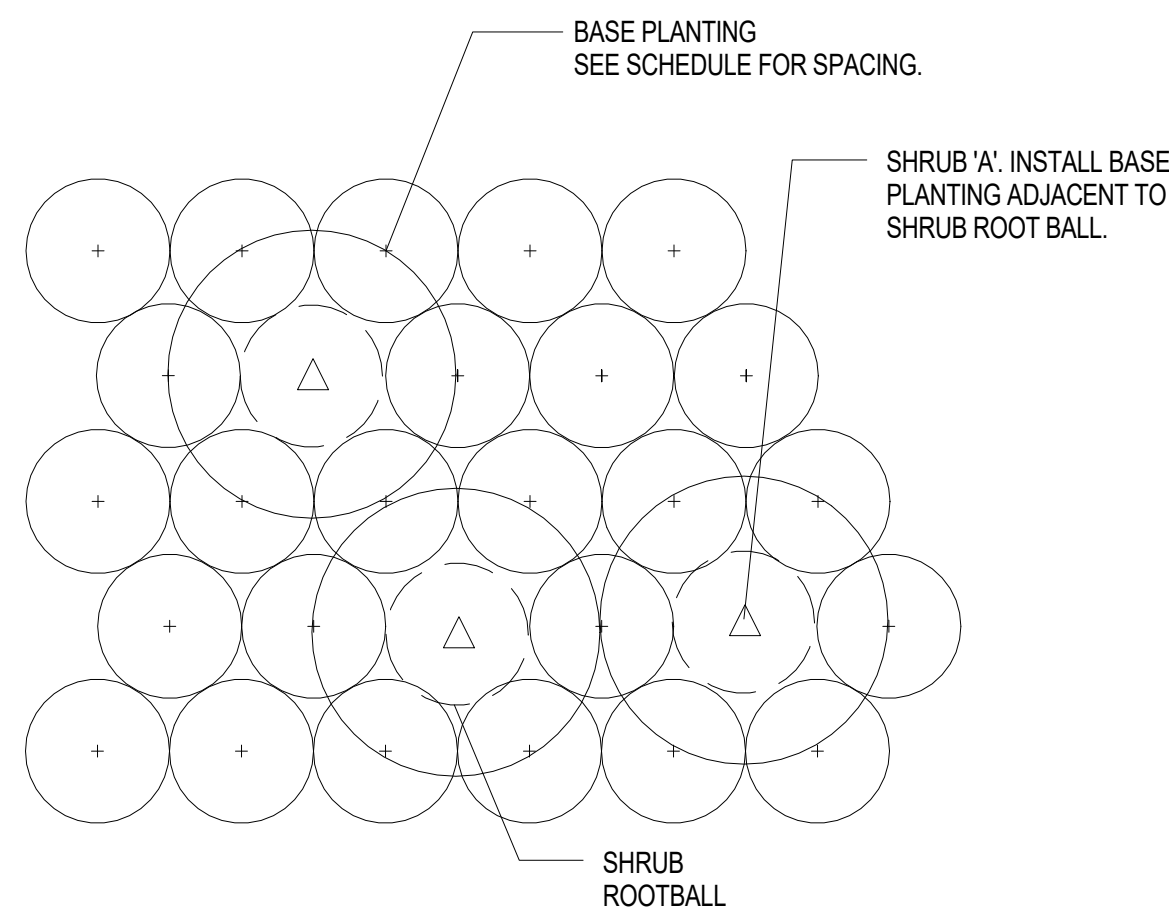
**E3**  
L2.2  
**SPADE CUT EDGE @ PLANTING BED**  
1 1/2" = 1'-0"



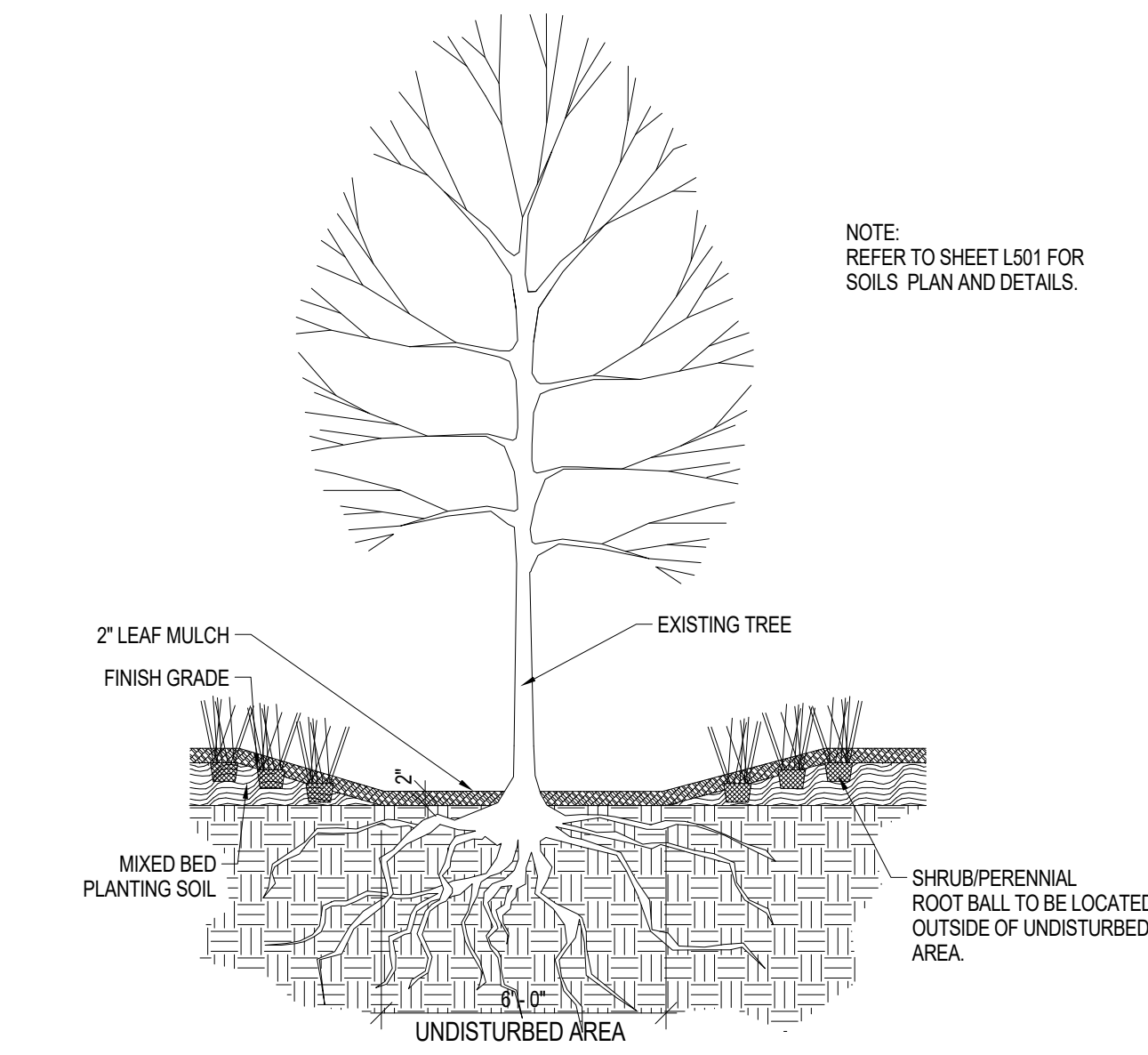
**IF ROOTBALL IS DEEPER THAN SCARIFICATION LAYER, LIGHTLY HAND SCARIFY DEEPER TO ACCEPT THE WIDTH OF EACH INDIVIDUAL ROOTBALL. TAKE CARE NOT TO DAMAGE EXISTING TREE ROOTS. DO NOT SCARIFY THE ENTIRE PLANTING BED.**

**NOTES:**  
1. ROOT BALL SIZES SHOWN ARE A MINIMUM SPREAD AND DEPTH FOR 'TYPE 2' INTERMEDIATE DECIDUOUS SHRUBS, AS DEFINED BY AMERICAN STANDARD FOR NURSERY STOCK.  
2. REFER TO SHRUB PLANTING DETAIL 5A.610 FOR FURTHER DETAIL.

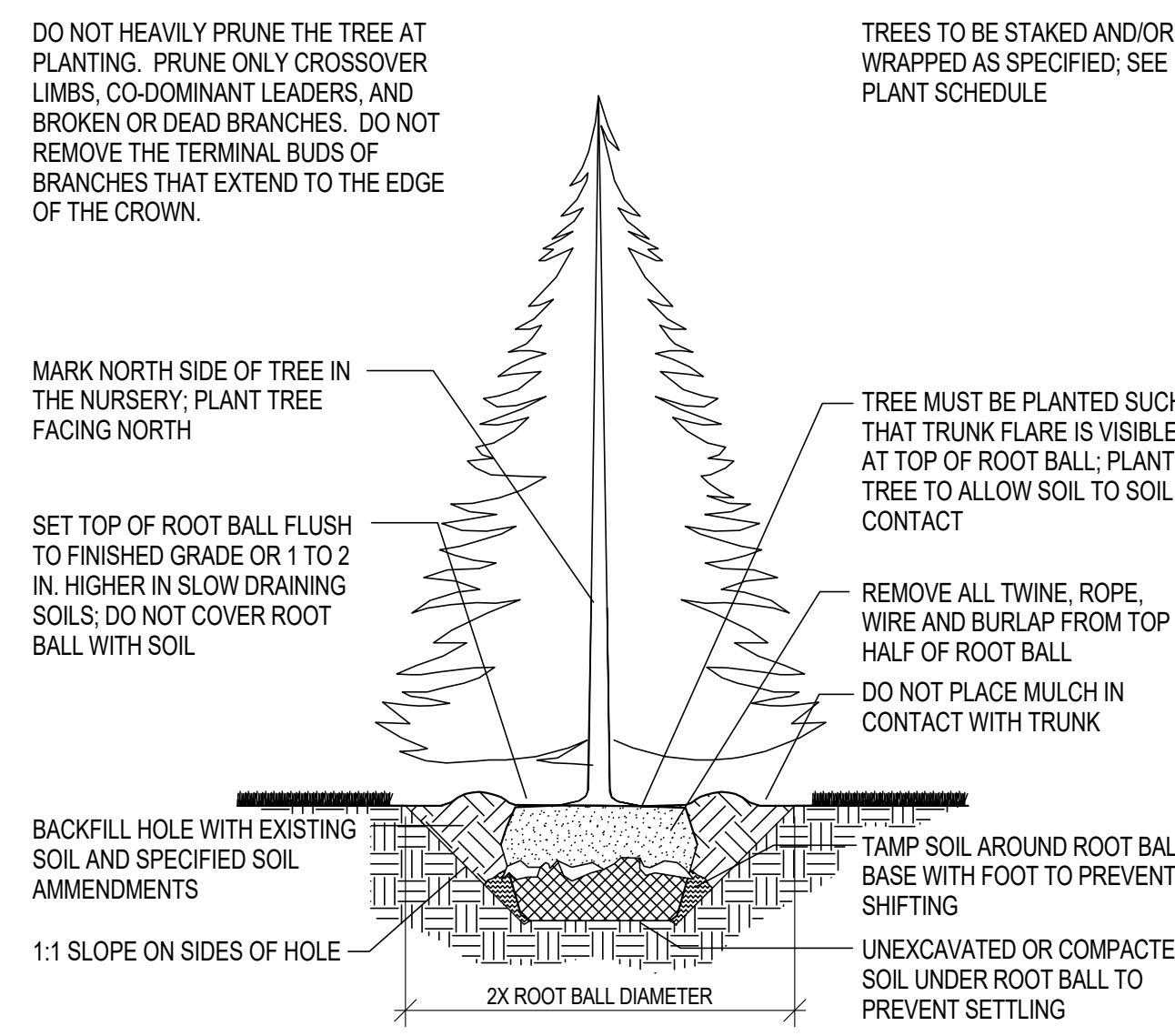
**C3**  
L2.2  
**SHRUB PLANTING DEPTH ADJACENT EXISTING TREES**  
1/2" = 1'-0"



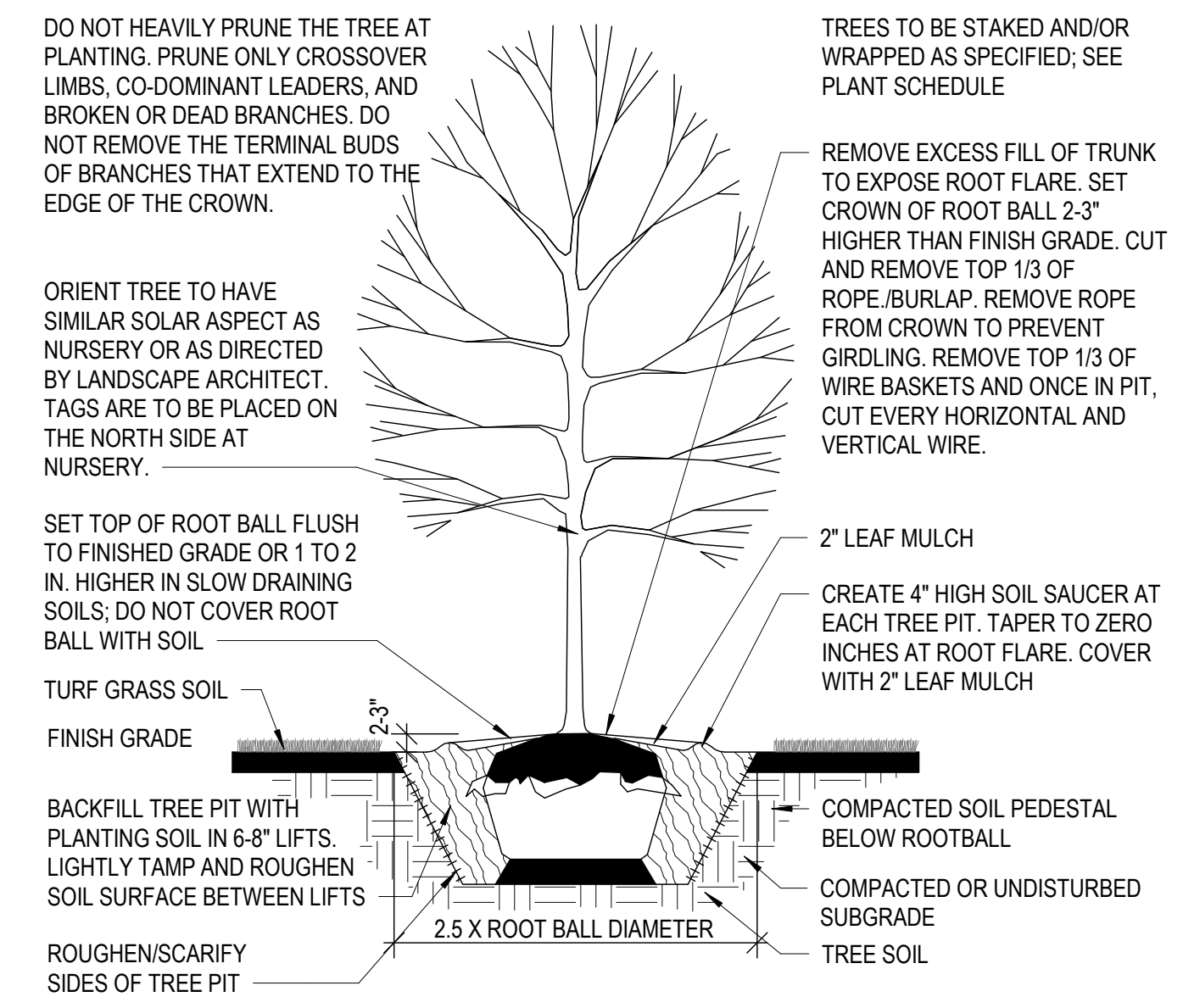
**D2**  
L2.2  
**INTERMINGLED SHRUB/PERENNIAL/GRASS PLANTING**  
1/2" = 1'-0"



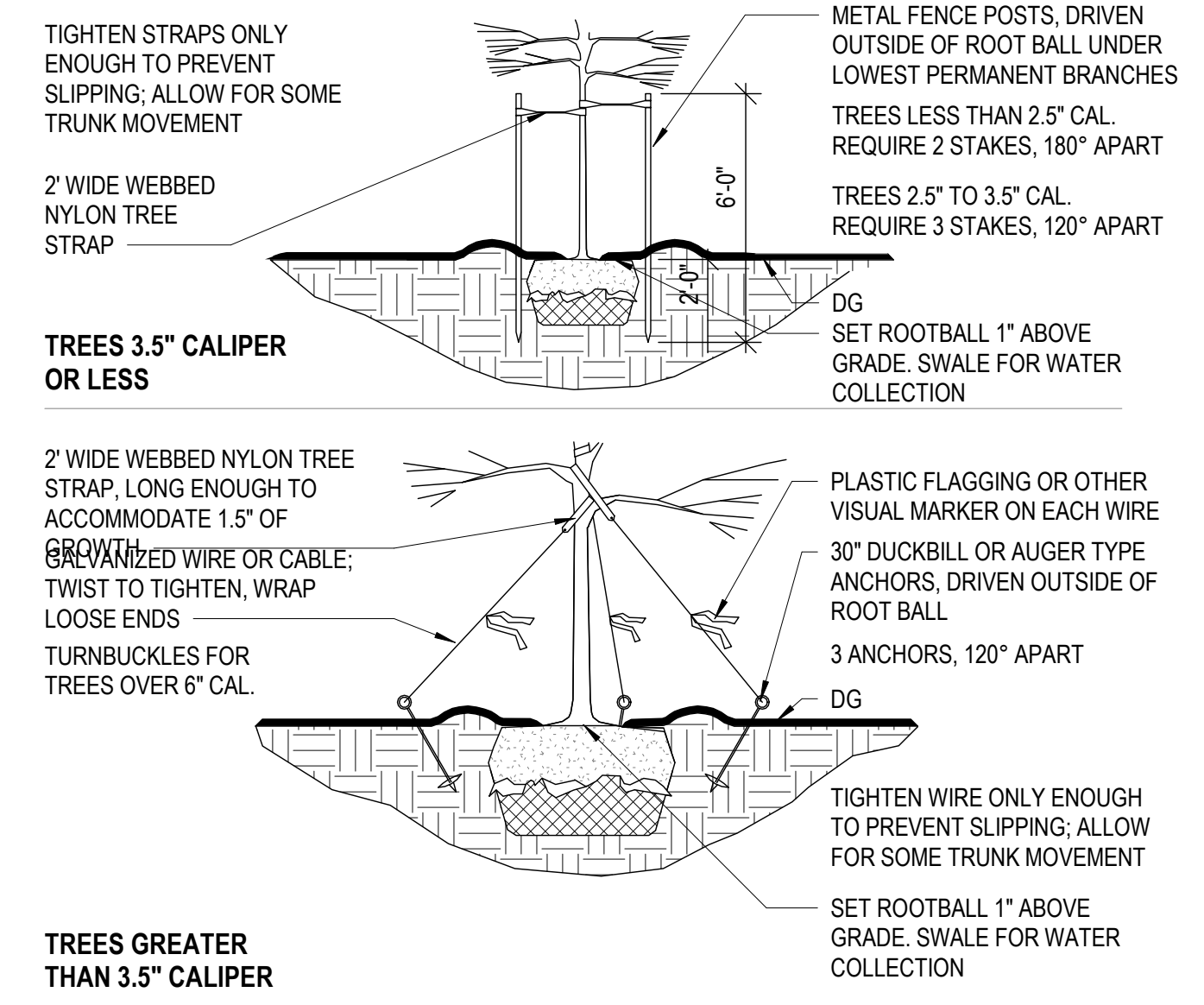
**C2**  
L2.2  
**MIXED PLANTING ADJACENT EXISTING TREE 1**  
1/4" = 1'-0"



**C1**  
L2.2  
**EVERGREEN TREE PLANTING**  
1/4" = 1'-0"



**B4**  
L2.2  
**DECIDUOUS TREE PLANTING**  
1/4" = 1'-0"



**TIGHTEN STRAPS ONLY ENOUGH TO PREVENT SLIPPING; ALLOW FOR SOME TRUNK MOVEMENT.**

**2\"/>**

**TREES GREATER THAN 3.5\"/>**

**GENERAL NOTES:**  
1. TREES TO BE STAKED ONLY AS SPECIFIED, SEE PLANT SCHEDULE.  
2. STAKES SHALL BE REMOVED NO LATER THAN THE END OF FIRST GROWING SEASON AFTER PLANTING.

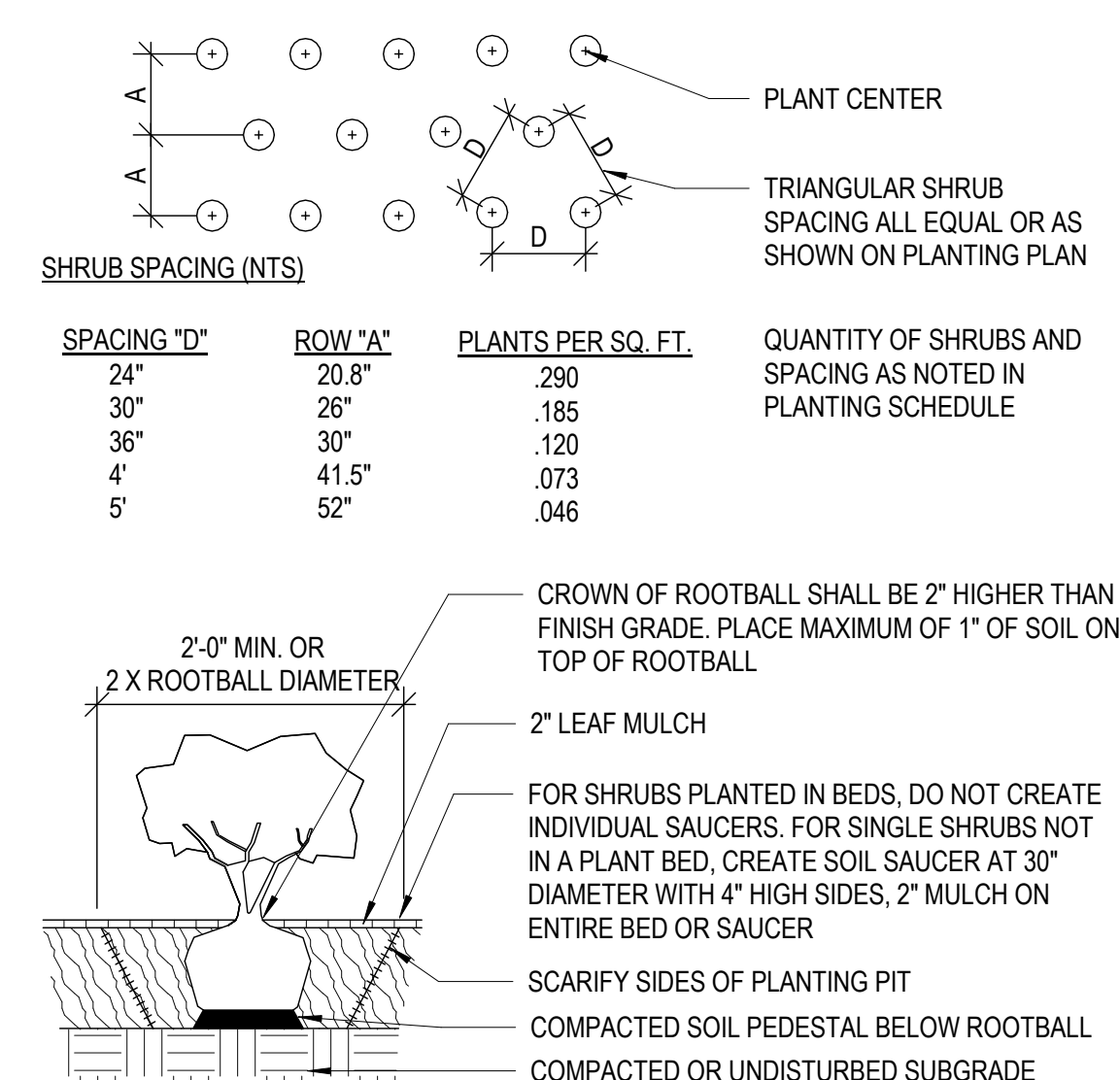
**PLANTING NOTES:**  
1. SIDES OF PLANTING PITS ARE TO BE LOOSENED OR RAKED BEFORE SETTING TREE IN PIT.  
2. EXCAVATE DEPTH OF PLANTING PIT TO THE SAME DEPTH AS THE ROOTBALL.  
3. THE WIDTH OF THE PLANTING PIT SHALL BE 2X THE WIDTH OF THE ROOTBALL.  
4. GENTLY LOOSEN ROOTS AROUND THE EXTERIOR OF ROOTBALL.  
5. CENTER TREE IN PLANTING PIT.  
6. INSPECT ROOT BALLS AT POINT OF PURCHASE TO AVOID PURCHASE OF ROOTBOUND MATERIALS.  
7. REMOVE ENTIRE CONTAINER FROM ALL PLANTS PRIOR TO PLANTING.  
8. NEW TREES SHALL NOT BE PRUNED UNLESS DIRECTED BY OWNER.  
9. FORM SWALE AROUND EACH TREE AS SHOWN FOR WATER COLLECTION.  
10. REMOVE ALL NURSERY STAKES.

**BACKFILL NOTES:**  
1. PROVIDE MULCH AMENDMENT WITH BACKFILL FOR ALL NON-DESERT TREES.  
2. BACKFILL MIX SHALL CONSIST OF 3 PARTS NATIVE SOIL TO 1 PART MULCH. PROVIDE 1 CUP GYPSUM IN BOTTOM OF PLANTING PIT.  
3. INCLUDE 16.20.0 AMMONIUM PHOSPHATE FERTILIZER IN PLANTING PIT FOR NON-DESERT TREES. MIX INTO BACKFILL. DO NOT SPREAD ON TOP OF SOIL.

**STAKING NOTES:**  
1. USE 2\"/>

**MISC. NOTES:**  
1. REMOVE ALL PLASTIC TREE TIE TAPE, BAMBOO NURSERY STAKE, WIRE TIES, AND LABELS FROM TREES AFTER THEY HAVE BEEN APPROVED.  
2. BACKFILL ANY HOLES LEFT IN ROOTBALL FROM NURSERY STAKES. BACKFILL SHALL BE CLEAN SOIL, NOT D.G.  
3. SWALE SHALL BE A SMOOTH TRANSITION- NO ABRUPT GRADE CHANGES.  
4. SWALE SHALL BE TESTED FOR WATER HOLDING CAPACITY PRIOR TO PLACING D.G.  
5. PROVIDE ADDITIONAL WIRE HOSE TIE WHEN THE TREE IS NOT RIGIDLY SUPPORTED BY THE TWO REQUIRED SUPPORTS.  
6. 2-3\"/>

**B2**  
L2.2  
**TREE PLANTING AND STAKING - SINGLE TRUNK**  
1/4" = 1'-0"



**B1**  
L2.2  
**SHRUB PLANTING**  
1/4" = 1'-0"

DRAWING ISSUE	
DESCRIPTION	DATE
LAY-BY LOADING	21-06-16

BUILDING MAP

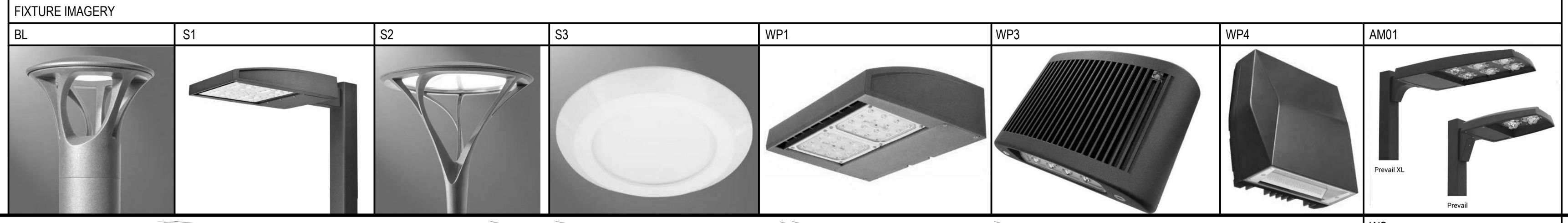
DRAWING TITLE  
PLANTING DETAILS

DRAWING NO.  
**L2.2**

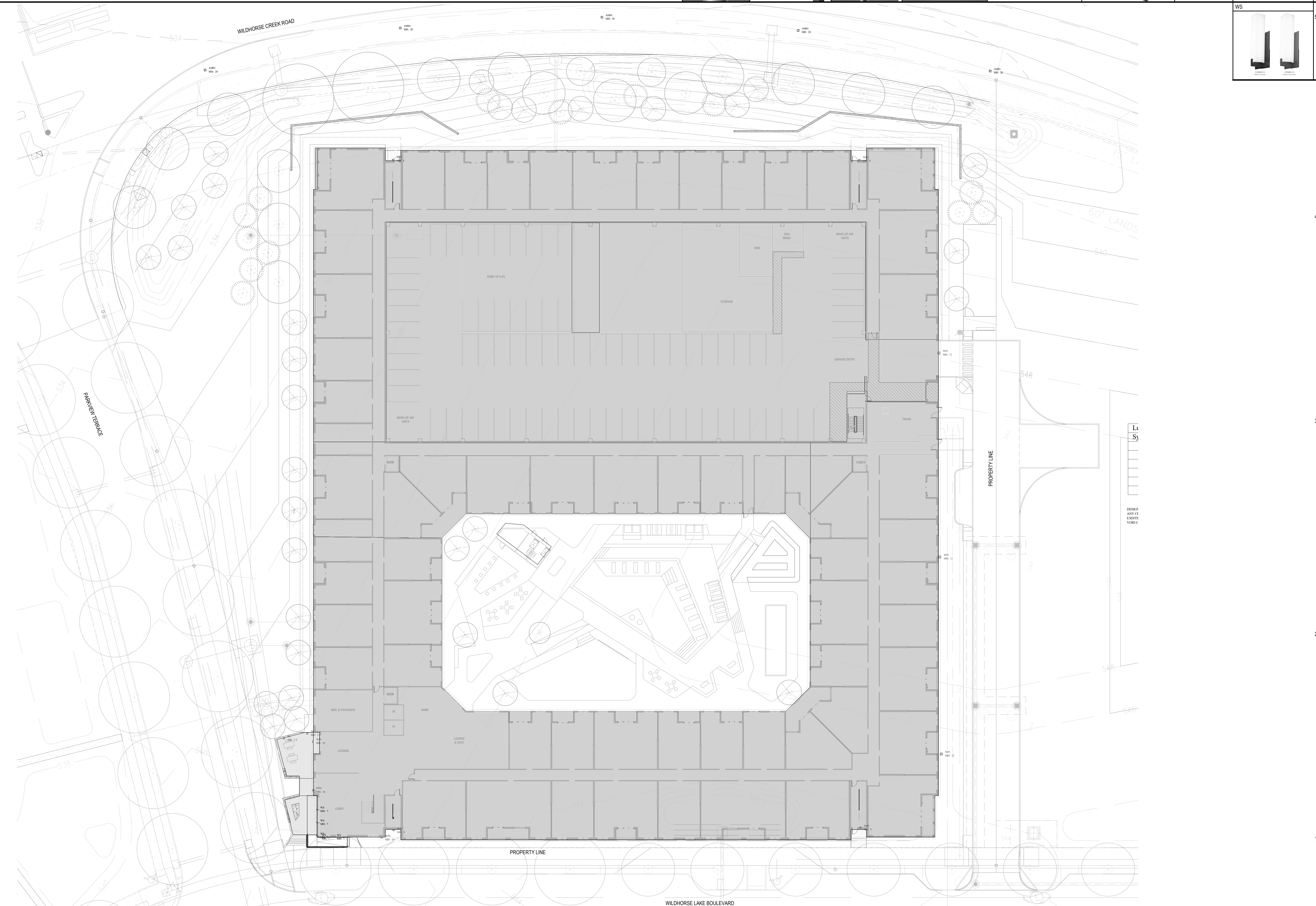
Job # 20.0243

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
ADA RAMP_Top	Illuminance	Fc	3.96	5.5	1.4	2.83	3.93
PARKING GARAGE TOP	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
DECK	Illuminance	Fc	4.16	10.0	1.2	3.47	8.33
PATIO AREA_Top	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
POOL SIDEWALK AREAS	Illuminance	Fc	0.65	9.1	0.0	N.A.	N.A.
PROPERTY LINE	Illuminance	Fc	1.38	6.1	0.0	N.A.	N.A.
ROADWAY	Illuminance	Fc					

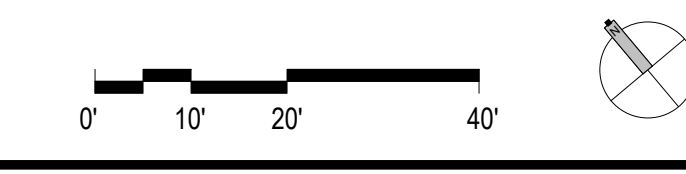
Symbol	Qty	Label	Arrangement	LLF	Lum. Watts	Total Watts	Description
AM01	5	AM01	SINGLE	0.900	96	480	PRV-C25-D-UNV-T4-B2
BL	2	BL	SINGLE	0.900	23	46	ABB-B2-LED-42-D1-A
WP1	3	WP1	SINGLE	0.912	59	177	GWC-SA1C-740-U-SL2
WP3	4	WP3	SINGLE	0.900	16.4	65.6	MERU-AC
WP4	3	WP4	SINGLE	0.900	20.7	62.1	AXCS2A
WS	5	WS	Single	0.900	29.3	146.5	700WCOS18WC830UNV



DESIGN IS BASED ON CURRENT INFORMATION PROVIDED AT THE TIME OF REQUEST.  
 ANY CHANGES OR MODIFICATIONS BEFORE OR AFTER THE DESIGN PHASE SHALL BE THE RESPONSIBILITY OF THE CLIENT.  
 EXISTING FIELD CONDITIONS, TRAIL EFFECT, ANY OF THE PREVIOUSLY MENTIONED, WILL BE THE CLIENT'S RESPONSIBILITY AND REQUIRE A CHANGE ORDER BY THE CLIENT'S REPRESENTATIVE.



**A1 SITE LIGHTING PLAN**  
 E1.1 1" = 20'-0"



ARCHITECT OF RECORD  
**Lamar Johnson Collaborative**  
 DESIGN ARCHITECT  
**ARCTURIS**



**WILDHORSE PPG @ LOT 2A-1**  
 PER PROPERTY GROUP  
 350 WILDHORSE LAKE BLVD

DRAWING ISSUE	
DESCRIPTION	DATE
SOSP SUBMITTAL	21-04-28
CITY COMMENTS	21-05-28
LAY-BY LOADING	21-06-16
CITY COMMENTS	21-07-29

BUILDING MAP

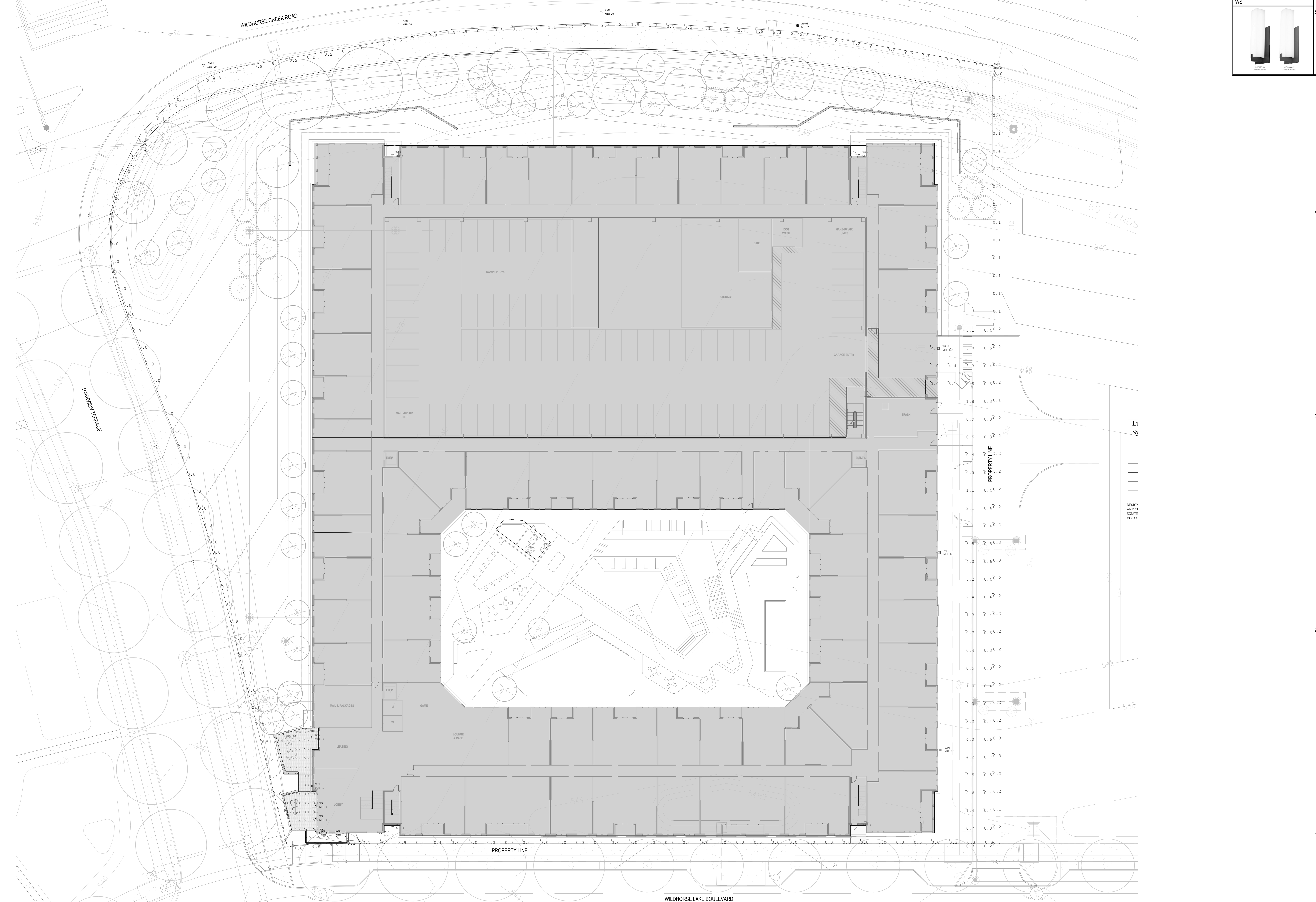
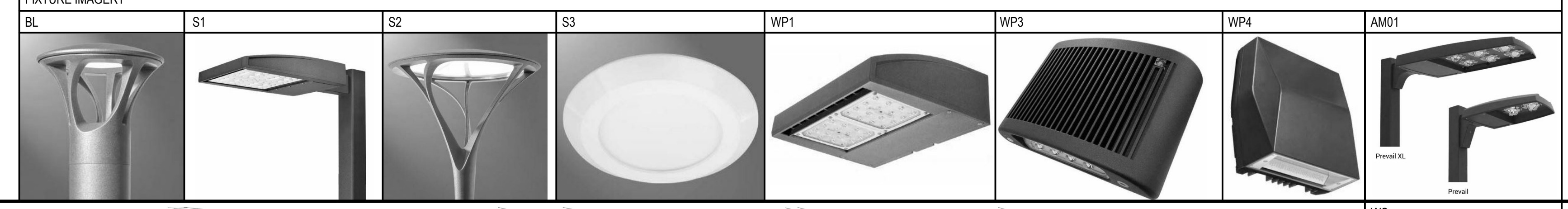
DRAWING TITLE  
 SITE LIGHTING PLAN

DRAWING NO.  
**E1.1**

Job # 20.0243

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
ADA RAMP_Top	Illuminance	Fc	3.96	5.5	1.4	2.83	3.93
PARKING GARAGE TOP	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
DECK	Illuminance	Fc	4.16	10.0	1.2	3.47	8.33
PATIO AREA_Top	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
POOL SIDEWALK AREAS	Illuminance	Fc	0.65	9.1	0.0	N.A.	N.A.
PROPERTY LINE	Illuminance	Fc	1.38	6.1	0.0	N.A.	N.A.
ROADWAY	Illuminance	Fc	1.38	6.1	0.0	N.A.	N.A.

Symbol	Qty	Label	Arrangement	LLF	Lum. Watts	Total Watts	Description
AM01	5	AM01	SINGLE	0.900	96	480	PRV-C25-D-UNV-T4-B2
BL	2	BL	SINGLE	0.900	23	46	ABB-B2-LED-42-D1-A
WP1	3	WP1	SINGLE	0.912	59	177	GWC-SAIC-740-U-SL2
WP3	4	WP3	SINGLE	0.900	16.4	65.6	MERU-AC
WP4	3	WP4	SINGLE	0.900	20.7	62.1	AXCS2A
WS	5	WS	Single	0.900	29.3	146.5	7000WCOS18WC830UNV

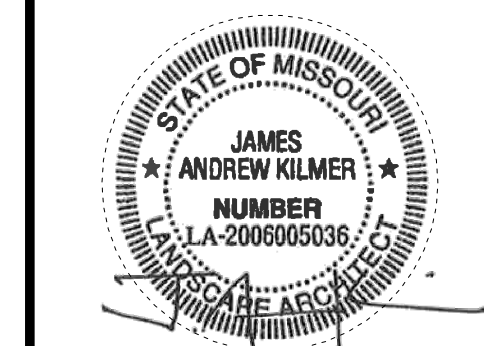


DESIGN IS BASED ON CURRENT INFORMATION PROVIDED AT THE TIME OF REQUEST.  
 ANY CHANGES IN MATERIALS, FINISHES, OR LAYOUTS SHALL BE THE RESPONSIBILITY OF THE CLIENT.  
 EXISTING FIELD CONDITIONS, TRAFFIC PATTERNS, AND OTHER FACTORS MAY AFFECT THE FINAL RESULTS.  
 THESE CONDITIONS, TRAFFIC PATTERNS, AND OTHER FACTORS SHALL BE THE RESPONSIBILITY OF THE CLIENT.

A1 SITE LIGHTING PLAN PHOTOMETRIC  
 E12 1" = 20'-0"



ARCHITECT OF RECORD  
**Lamar Johnson Collaborative**  
 DESIGN ARCHITECT  
**ARCTURIS**



**WILDHORSE PPG @ LOT 2A-1**  
 PER PROPERTY GROUP  
 350 WILDHORSE LAKE BLVD

DRAWING ISSUE	
DESCRIPTION	DATE
SOSP SUBMITTAL	21-04-28
CITY COMMENTS	21-05-28
LAY-BY LOADING	21-06-16
CITY COMMENTS	21-07-29

DRAWING TITLE  
 SITE LIGHTING PHOTOMETRIC PLAN

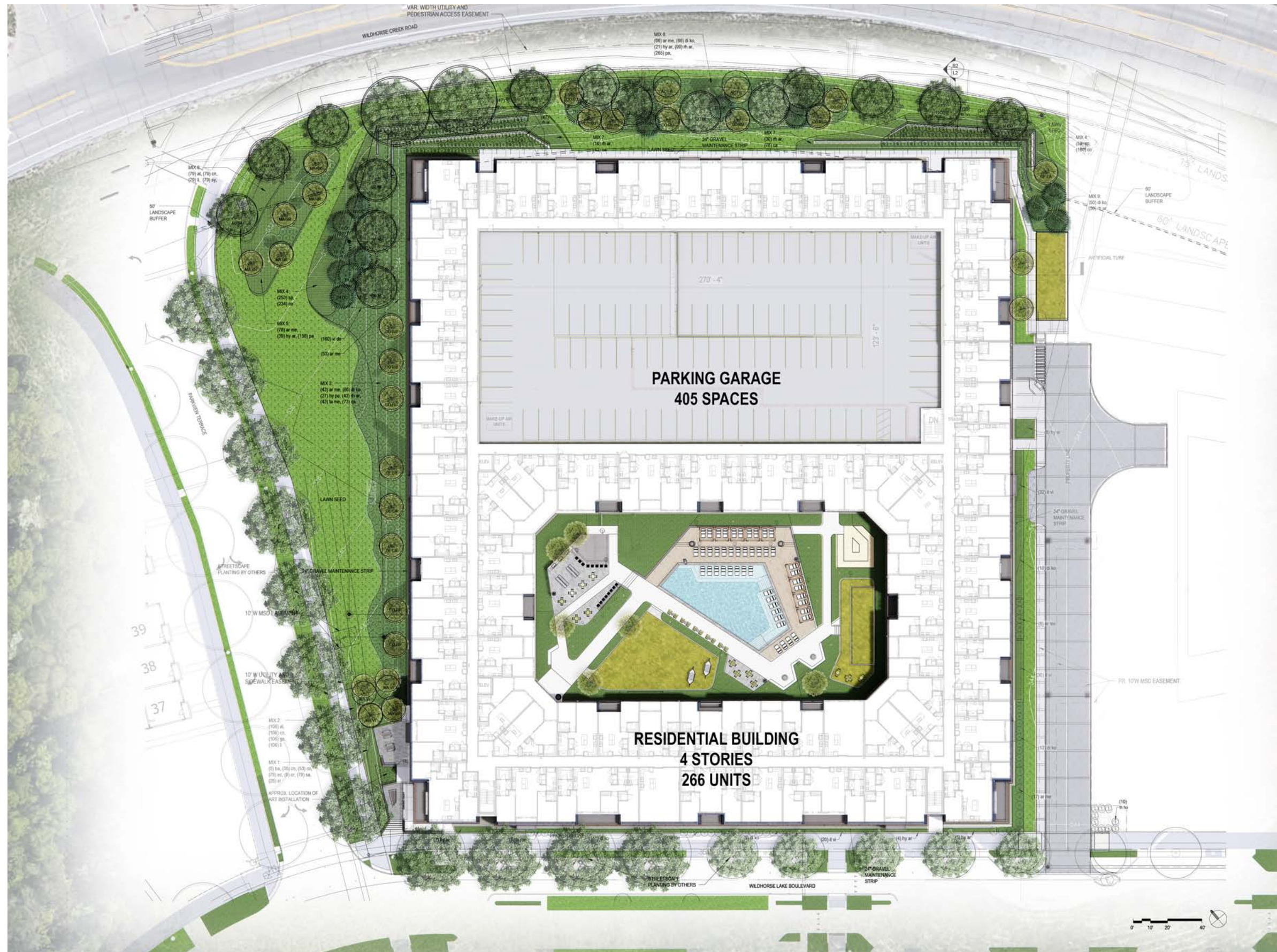
DRAWING NO.  
**E1.2**

Job # 20.0243

THE FLATS AT  
WILDHORSE VILLAGE



# Site Plan





# Rendering - Wildhorse Lake BLVD & Parkview Terrace



# Rendering - Main Entry at Wildhorse Lake BLVD



# Rendering - Wild Horse Creek Road Looking West



# Rendering - Wild Horse Creek Road Looking SE



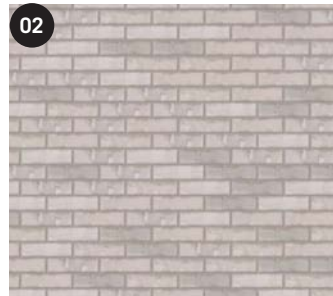
# Rendering - Courtyard



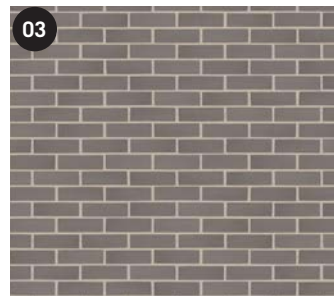
# Exterior Building Materials



**BRICK 01**  
 Manuf: Sioux City Brick  
 Style: Modular  
 Color: White Velour



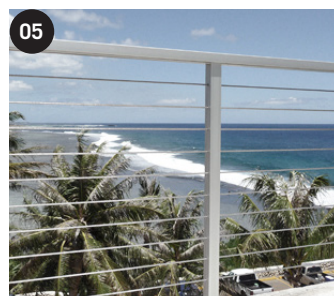
**BRICK 02**  
 Manuf: Glen Gery  
 Style: Modular  
 Color: Morning Dove



**BRICK 03**  
 Manuf: Glen Gery  
 Style: Modular  
 Color: Urban Grey



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



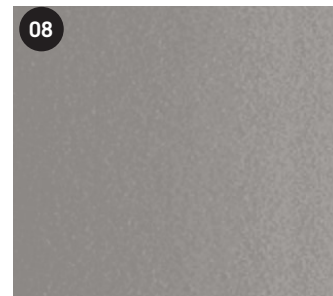
**METAL RAILING**  
 Manuf: ATR  
 Style: Cable Railing  
 Color: Paint to Match



**MASONRY VENEER 01**  
 Manuf: Earthworks  
 Style: EW Gold L4/L5  
 Finish: Brushed



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

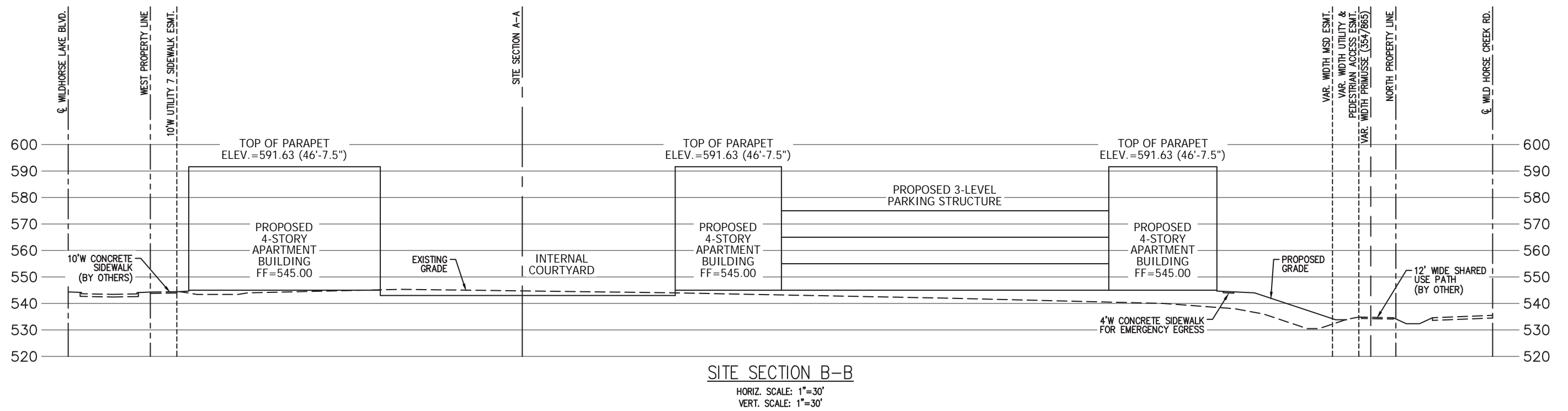
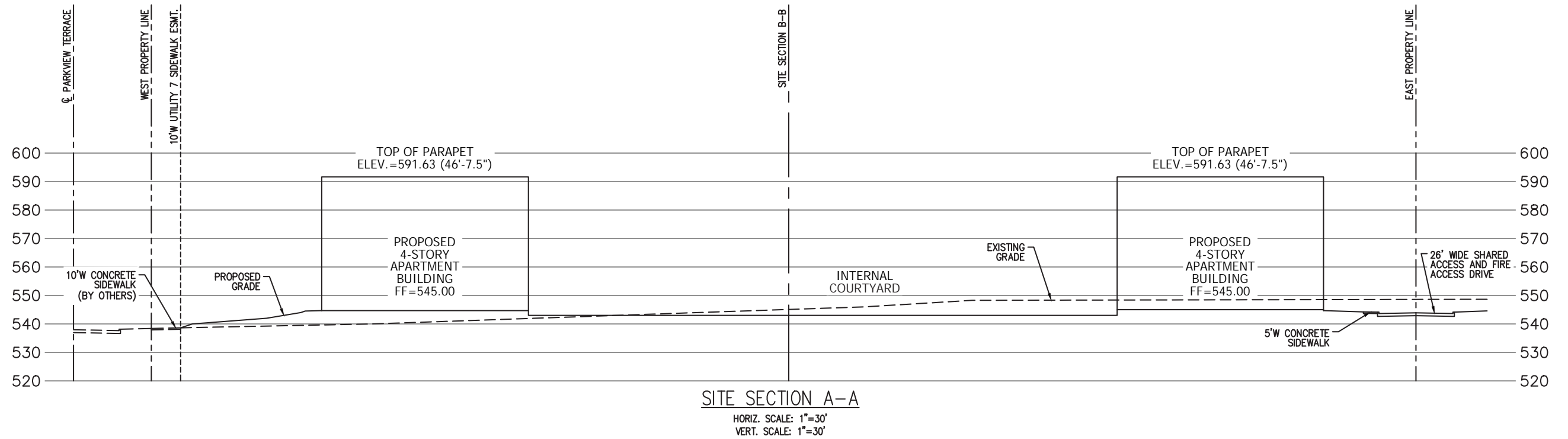


**FIBER CEMENT 02**  
 Manuf: James Hardie  
 Style: Hardiepanel  
 Color: Pearl Gray



**FIBER CEMENT 01**  
 Manuf: Woodtone  
 Style: Rustic Series  
 Color: Cascade Slate

# Building Sections



# Rooftop Screening



1 NORTH-SOUTH SECTION  
A0-07 1/16" = 1'-0"



2 EAST-WEST SECTION  
A0-07 1/16" = 1'-0"



# 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 3114. The project is bordered to the north by Aventura at Wild Horse Creek Apartments and Wildhorse Apartments along Wild Horse Creek Road. Lots to the east, west, and south are also part of the larger Wildhorse Village development with uses as allowed in Ordinance 3114. The Flats 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 main entry of the development at Parkview 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. There are no other internal drives. 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 proposed development utilizes a series of terraced retaining walls at the northeast and northwest corners of the building. 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

Great consideration and has been given regarding the massing and scale of the architecture. This development has been designed in concert with the density and urban aspirations of the Wildhorse Village master plan. The building utilizes an articulation pattern of voids and recesses with unifying

roof elements to create a rhythm of “corners and edges.” These “corner and edges” help breakdown the façade into individual townhome-like elements, similar in scale to classic European and historic US streets. Other façade elements like the inset balconies, protruding balconies and open terraces provide that extra layer of depth and activity not found in other multifamily development. The residential building completely conceals the parking garage, blocking unwanted views. Finally, the implied 4th floor attic story helps to breakdown the vertical scale of the building while also provide interesting visual relief and architectural continuity.

- Design

The architecture intends to instill a feeling of quality and quiet sophistication by blending clean, modern aesthetics with hints of classical forms and organization. High contrasting elements like the white brick against the black windows provide visual interest, as do the deeply inset balconies and terraces. The subtle sloped roof forms at the 4th 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 room and parking garage are internal, fully concealed from public view. Conversely, locating the main entry at the corner of Parkview Terrace and Wildhorse Lake BLVD will help to activate the corner and provide interest at a main entry point in to the larger Wildhorse Village development. Overall, the building is 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 white brick, vision glass, gray metal shingles, gray fiber cement panels and wood tone fiber cement panels. Black vinyl doors and windows with Low E glazing will be used at all residential units. Black anodized storefront system with insulated glass units (IGUs) will be located at the main entry lobby. The monochromatic color palette of the project of whites, grays and blacks juxtaposed to create high-contrasting elements providing interest.

- 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 encloses the dog run at the northeast corner of the property.

July 26, 2021

Mike Knight – Assistant City Planner  
City of Chesterfield  
690 Chesterfield Pkwy W.  
Chesterfield MO 63017

RE: Wildhorse Village Lot 2A-1 “The Flats at Wildhorse Village” Architecture Review Board Response

Dear Mr. Mike Knight,

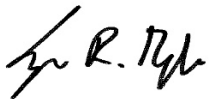
Please find the following written responses to the itemized conditions of the Architectural Review Board’s recommendation to approve during the July 8, 2021, meeting. In addition to the written response, we have an electronic PDF submission of the revised architectural exhibits.

- Provide a color for the rooftop units and match with the surrounding rooftop.
  - **Response: Rooftop equipment finish color will be light gray to match the gray roofing membrane.**
- Additional handrailing added to address building code compliance should be consistent with the existing railings depicted for the project.
  - **Response: Final handrail selections will be black anodized aluminum, consistent with the depicted handrails at the balconies.**
- Provide the decibel levels of mechanical equipment within the parking garage.
  - **Response: Estimated decibel level of the fully enclosed mechanical equipment for (8) garage make-up air units (2 per levels 1 through 4) – 50db/each.**
  -
- Evaluate the base of the building and incorporate additional material and/or color to soften the white velour brick of the building.

- **Response: Two additional brick colors have been added to the project: “Morning Dove” and “Urban Grey”. The slightly darker and warmer “Urban Grey” brick provides a horizontal band at the first floor, consistent with comments made by ARB members. A pergola element has been added at the four primary corners of the building. Please refer to the submitted architectural exhibits.**

Please don't hesitate to reach out to me directly with any comments or questions.

Sincerely,



Tyson Pyle, AIA  
Director of Architecture

cc: Michael Hamburg ([michael@pierpropertygroup.com](mailto:michael@pierpropertygroup.com))  
George M. Stock ([george.stock@stockassoc.com](mailto:george.stock@stockassoc.com))  
Drew Dixon ([andrew.dixon@stockassoc.com](mailto:andrew.dixon@stockassoc.com))  
Ben Revelle ([RevelleB@theljc.com](mailto:RevelleB@theljc.com))  
Ben Buehrle ([BuehrleB@theljc.com](mailto:BuehrleB@theljc.com))  
John Prather ([JPRATHER@arcturis.com](mailto:JPRATHER@arcturis.com))

Project		Catalog #	PRV-C25-D-UNV-T4-SA-BK-OA/RA1016	Type	AM01
Prepared by		Notes		Date	



# Lumark

## PRV / PRV-XL Prevail LED

Area / Site Luminaire

### Product Features



### Product Certifications



### Interactive Menu

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

### Quick Facts

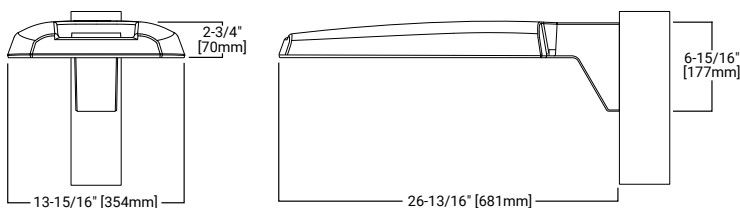
- Lumen packages range from 7,100 - 48,600 lumens (50W - 350W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 148 lumens per watt
- Energy and maintenance savings up to 85% versus HID solutions
- Standard universal quick mount arm with universal drill pattern

### Connected Systems

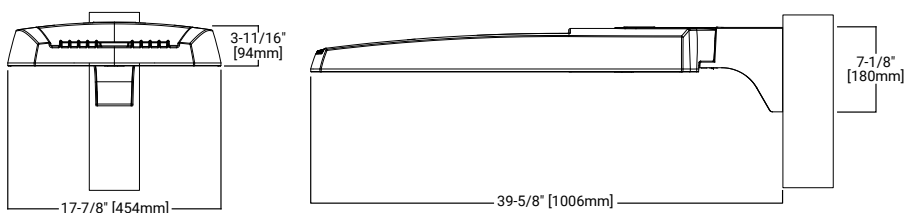
- WaveLinx
- Enlighted

### Dimensional Details

#### Prevail



#### Prevail XL



Ordering Information

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

PRV-C25-D-UNV-T4-SA-BK-OA/RA1016


Product Family <sup>1,2</sup>	Light Engine <sup>3</sup>	Driver	Voltage	Distribution	Mounting (Included)	Color
PRV=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	D=Dimming (0-10V)	UNV=Universal (120-277V) 347=347V 480=480V <sup>4</sup>	T2=Type II T3=Type III T4=Type IV T5=Type V	SA=Standard Versatile Arm MA=Mast Arm WM=Wall Mount Arm	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White
PRV-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					

Options (Add as Suffix)	Accessories (Order Separately) <sup>18</sup>
<p>7030=70 CRI / 3000K CCT <sup>5</sup></p> <p>7035=70CRI / 3500K CCT <sup>5</sup></p> <p>7050=70 CRI / 5000K CCT <sup>5</sup></p> <p>HSS=House Side Shield <sup>6</sup></p> <p>L90=Optics Rotated 90° Left</p> <p>R90=Optics Rotated 90° Right</p> <p>10K=10kV UL 1449 Fused Surge Protective Device</p> <p>20MSP=20kV MOV Surge Protective Device</p> <p>20K=Series 20kV UL 1449 Surge Protective Device</p> <p>HA=50°C High Ambient Temperature <sup>7</sup></p> <p>PER=NEMA 3-PIN Twistlock Photocontrol Receptacle</p> <p>PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle</p> <p>SPB2=Dimming Occupancy Sensor with Bluetooth Interface, 8'-20' Mounting <sup>24</sup></p> <p>SPB4=Dimming Occupancy Sensor with Bluetooth Interface, 21'-40' Mounting <sup>24</sup></p> <p>MSP/DIM-L12=Integrated Sensor for Dimming Operation, 8' - 12' Mounting Height <sup>8,9</sup></p> <p>MSP/DIM-L30=Integrated Sensor for Dimming Operation, 12' - 30' Mounting Height <sup>8,9</sup></p> <p>MSP-L12=Integrated Sensor ON/OFF Operation, 8' - 12' Mounting Height <sup>8,9</sup></p> <p>MSP-L30=Integrated Sensor ON/OFF Dimming Operation, 12' - 30' Mounting Height <sup>8,9</sup></p> <p>MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height <sup>9,10</sup></p> <p>MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height <sup>9,10</sup></p> <p>MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height <sup>9,10</sup></p> <p>MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height <sup>9,10</sup></p> <p>ZD=DALI-enabled 4-PIN Twistlock Receptacle <sup>9,11,12</sup></p> <p>ZW=Wavelinx-enabled 4-PIN Twistlock Receptacle <sup>9,11,12</sup></p> <p>SWPD4XX=Wavelinx Wireless Sensor, 7' - 15' Mounting Height <sup>9,11,12,13,14</sup></p> <p>SWPD5XX=Wavelinx Wireless Sensor, 15' - 40' Mounting Height <sup>9,11,12,13,14</sup></p> <p>LWR-LW=Enlighted Wireless Sensor, Wide Lens for 8' - 16' Mounting Height <sup>9,15</sup></p> <p>LWR-LN=Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height <sup>9,15</sup></p> <p>(See Table Below)=LumenSafe Integrated Network Security Camera <sup>16,17</sup></p> <p>CC=Coastal Construction <sup>23</sup></p>	<p>PRVWM-XX=Wall Mount Kit <sup>8</sup></p> <p>PRVMA-XX=Mast Arm Mounting Kit <sup>8</sup></p> <p>PRVSA-XX=Standard Arm Mounting Kit <sup>8</sup></p> <p>PRVXLSA-XX=Standard Arm Mounting Kit (for Prevail XL) <sup>16</sup></p> <p>PRVXLWM-XX=Wall Mount Kit (for Prevail XL) <sup>16</sup></p> <p>PRVXLMA-XX=Mast Arm Mounting Kit (for Prevail XL) <sup>16</sup></p> <p>MA1010-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon</p> <p>MA1011-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon</p> <p>MA1017-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon</p> <p>MA1018-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon</p> <p>HS/VERD=House Side Shield <sup>6,19</sup></p> <p>VGS-F/B=Vertical Glare Shield, Front/Back <sup>19</sup></p> <p>VGS-SIDE=Vertical Glare Shield, Side <sup>19</sup></p> <p>OA/RA1013=Photocontrol Shorting Cap</p> <p>OA/RA1014=NEMA Photocontrol - 120V</p> <p>OA/RA1016=NEMA Photocontrol - Multi-Tap 105-285V</p> <p>OA/RA1201=NEMA Photocontrol - 347V</p> <p>OA/RA1027=NEMA Photocontrol - 480V</p> <p>ISHH-01=Integrated Sensor Programming Remote <sup>20</sup></p> <p>FSIR-100=Wireless Configuration Tool for Occupancy Sensor <sup>21</sup></p> <p>SWPD4-XX=WaveLinx Wireless Sensor, 7' - 15' Mounting Height <sup>12,13,14</sup></p> <p>SWPD5-XX=WaveLinx Wireless Sensor, 15' - 40' Mounting Height <sup>12,13,14</sup></p> <p>WOLC-7P-10A=WaveLinx Outdoor Control Module (7-PIN) <sup>22</sup></p>

**NOTES:**

- DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications. Refer to installation instructions and pole white paper WP513001EN for additional support information.
- Standard 4000K CCT and 70CRI.
- 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).
- Use dedicated IES files on product website for non-standard CCTs.
- Option will come factory-installed. House Side Shield not suitable with T5 distribution or C60 lumen package.
- Not available with C60 lumen package.
- Only available in PRV configurations C15, C25, C40 or C60.
- Controls system is not available with photocontrol receptacle (PER or PER7) or other controls systems (MS, MSP, ZW, ZD or LWR).
- Utilizes the Wattstopper sensor FSP-211.
- Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F).
- 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.
- Replace XX with sensor color (WH, BZ, or BK).
- Requires 4-PIN twistlock receptacle (ZD or ZW) option.
- 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.
- Only available in PRV-XL configurations C75, C100, C125, C150, or C175.
- Not available with 347V, 480V, or HA options. Consult LumenSafe system product pages for additional details and compatibility information.
- Replace XX with paint color.
- Must order one per optic/LED when ordering as a field-installable accessory (1, 2, 4, or 6).
- This tool enables adjustment to Integrated Sensor (MSP) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information.
- This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information.
- Requires 7-PIN NEMA twistlock photocontrol receptacle (PER7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS, MSP, ZW, ZD or LWR). Operates on 120-347V input voltages.
- Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.
- Smart device with mobile application required to change system defaults. See controls section for details.

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

Product Family	Camera Type	Data Backhaul
L=LumenSafe Technology 	D=Dome Camera	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 <sup>1</sup>	Light Engine	Voltage	Distribution	Options (Add as Suffix)
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 <sup>2</sup>	T3=Type III T4=Type IV	MSP/DIM-L30=Integrated Sensor for Dimming Operation, Maximum 30' Mounting Height <sup>2</sup>
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:**

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

**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.

<b>Catalog #</b>	ABB-B2-LED-42-D1-A-**	<b>Type</b>	BL
<b>Project</b>		<b>Date</b>	
<b>Comments</b>			
<b>Prepared by</b>			

**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 combined with excellent mechanical an exterior exposure qualities display greater than twice as much gloss retention. RAL and custom color matches available. Finish is compliant with ASTM B117 3000hr salt spray standard.

**Warranty**

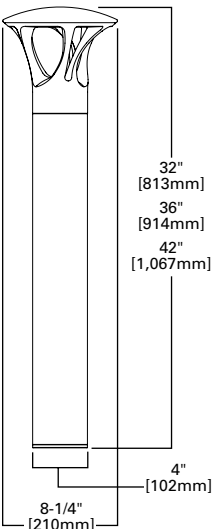
Five-year warranty.



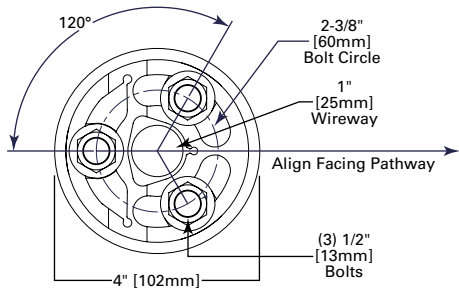
**ABB ARBOR BOLLARD**

PATHWAY LUMINAIRE

**DIMENSIONS**



**BOLT CIRCLE ORIENTATION**



**CERTIFICATION DATA**



UL/cUL Listed  
 IP66 Housing  
 ISO 9001  
 RoHS  
 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.]

**POWER AND LUMENS**

Lumen/Distribution	B1 Symmetric	B2 Symmetric	B1 Asymmetric	B2 Asymmetric
<b>Drive Current</b>				
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
<b>Optics</b>				
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 <sup>1</sup>	Source	Nominal Height	Voltage	Distribution	Color
ABB=Arbor Bollard	B1=Mid Lumen Output B2=High Lumen Output	LED	30=32" 36=36" 42=42"	D1=Dimming Driver (120-277V) <sup>2</sup> 347=347V <sup>3</sup> 480=480V <sup>3,4</sup>	A=Asymmetric S=Symmetric	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White CC=Custom Color <sup>5</sup>
<b>Options</b> (Add as Suffix)					<b>Accessories</b> (Order Separately)	
8030=80 CRI / 3000K CCT <sup>6</sup> HA=High Ambient <sup>7</sup> MS/DIM-H8=Motion Sensor for Dimming or Bi-Level Operation (Horizontal Detection) <sup>8</sup> MS/DIM-2H8=Twin Motion Sensors for 360° Dimming or Bi-Level Operation (Horizontal Detection) <sup>8</sup> DIM=0-10V Dimming Driver Leads Brought Out from Fixture					ABAAnchor=Anchor Bolt Kit and Template <sup>9</sup> ISHH=Wireless Configuration Tool for Integrated Sensor (Occupancy Sensor Settings)	

- NOTES:**
- Standard 4000K CCT nominal 70 CRI.
  - Dimming driver standard.
  - Requires the use of a step down transformer.
  - 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).
  - RAL and custom color matching available. Consult your lighting representative at Cooper Lighting Solutions for more information.
  - Extended lead times apply. Use dedicated IES files when performing layouts.
  - 50°C ambient rating.
  - 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.
  - Contact your customer service representative at Cooper Lighting Solutions for advance shipping.

Project		Catalog #	GLEON-SA2C-740-5WQ-**	Type	S1
Prepared by		Notes		Date	



# McGraw-Edison

## GLEON Galleon

Area / Site Luminaire

### Typical Applications

Outdoor • Parking Lots • Walkways • Roadways • Building Areas

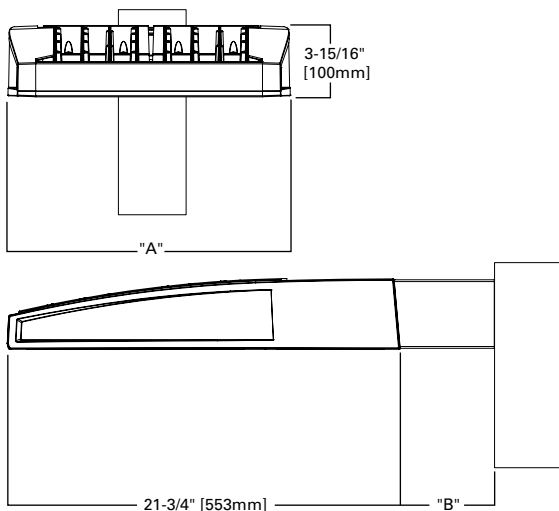
### Interactive Menu

- Ordering Information page 2
- Mounting Details page 3
- Optical Distributions page 4
- Product Specifications page 4
- Energy and Performance Data page 4
- Control Options page 9

### Quick Facts

- Lumen packages range from 4,200 - 80,800 (34W - 640W)
- Efficacy up to 156 lumens per watt

### Dimensional Details



### Product Certifications



### Product Features



### Connected Systems

- WaveLinX
- Enlighted

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Extended Arm Length <sup>1</sup>	"B" Quick Mount Arm Length	"B" Quick Mount Extended Arm Length
1-4	15-1/2"	7"	10"	10-5/8"	16-9/16"
5-6	21-5/8"	7"	10"	10-5/8"	16-9/16"
7-8	27-5/8"	7"	13"	10-5/8"	--
9-10	33-3/4"	7"	16"	--	--

**NOTES:**  
For arm selection requirements and additional line art, see Mounting Details section.



Ordering Information **GLEON-SA2C-740-U-5WQ-\***

SAMPLE NUMBER: **GLEON-SA4C-740-U-T4FT-GM**


Product Family <sup>1,2</sup>	Light Engine		Color Temperature	Voltage	Distribution	Mounting	Finish
	Configuration	Drive Current					
<b>GLEON=Galleon</b>	<b>SA1=1 Square</b> <b>SA2=2 Squares</b> <b>SA3=3 Squares</b> <b>SA4=4 Squares</b> <b>SA5=5 Squares<sup>4</sup></b> <b>SA6=6 Squares</b> <b>SA7=7 Squares<sup>5</sup></b> <b>SA8=8 Squares<sup>5</sup></b> <b>SA9=9 Squares<sup>6</sup></b> <b>SA0=10 Squares<sup>6</sup></b>	<b>A=600mA</b> <b>B=800mA</b> <b>C=1000mA<sup>16</sup></b> <b>D=1200mA<sup>16</sup></b>	<b>722=70CRI, 2200K</b> <b>727=70CRI, 2700K</b> <b>730=70CRI, 3000K</b> <b>735=70CRI, 3500K</b> <b>740=70CRI, 4000K</b> <b>750=70CRI, 5000K</b> <b>760=70CRI, 6000K</b> <b>827=80CRI, 2700K</b> <b>830=80CRI, 3000K</b> <b>AMB=Amber, 590nm<sup>14,16</sup></b>	<b>U=120-277V</b> 1=120V 2=208V 3=240V 4=277V 8=480V <sup>7,8</sup> 9=347V <sup>7</sup>	<b>T2=Type II</b> <b>T2R=Type II Roadway</b> <b>T3=Type III</b> <b>T3R=Type III Roadway</b> <b>T4FT=Type IV Forward Throw</b> <b>T4W=Type IV Wide</b> <b>5NQ=Type V Narrow</b> <b>5MQ=Type V Square Medium</b> <b>5WQ=Type V Square Wide</b> <b>SL2=Type II w/Spill Control</b> <b>SL3=Type III w/Spill Control</b> <b>SL4=Type IV w/Spill Control</b> <b>SLL=90° Spill Light Eliminator Left</b> <b>SLR=90° Spill Light Eliminator Right</b> <b>RW=Rectangular Wide Type I</b> <b>AFL=Automotive Frontline</b>	<b>[blank]=Arm for Round or Square Pole</b> <b>EA=Extended Arm<sup>9</sup></b> <b>MA=Mast Arm Adapter<sup>10</sup></b> <b>WM=Wall Mount</b> <b>QM=Quick Mount Arm (Standard Length)<sup>11</sup></b> <b>QMEA=Quick Mount Arm (Extended Length)<sup>12</sup></b>	<b>AP=Grey</b> <b>BZ=Bronze</b> <b>BK=Black</b> <b>DP=Dark Platinum</b> <b>GM=Graphite Metallic</b> <b>WH=White</b>

Options (Add as Suffix)	Controls and Systems Options (Add as Suffix)	Accessories (Order Separately)
<b>DIM=External 0-10V Dimming Leads<sup>19,20</sup></b> <b>F=Single Fuse (120, 277 or 347V Specify Voltage)</b> <b>FF=Double Fuse (208, 240 or 480V Specify Voltage)</b> <b>20K=Series 20kV UL 1449 Surge Protective Device</b> <b>2L=Two Circuits<sup>17,18</sup></b> <b>HA=50°C High Ambient</b> <b>HSS=Installed House Side Shield<sup>28</sup></b> <b>GRSBK=Glare Reducing Shield, Black<sup>23</sup></b> <b>GRSWH=Glare Reducing Shield, White<sup>23</sup></b> <b>LCF=Light Square Trim Painted to Match Housing<sup>27</sup></b> <b>MT=Installed Mesh Top</b> <b>TH=Tool-less Door Hardware</b> <b>CC=Coastal Construction finish<sup>3</sup></b> <b>L90=Optics Rotated 90° Left</b> <b>R90=Optics Rotated 90° Right</b> <b>CE=CE Marking<sup>29</sup></b> <b>AHD145=After Hours Dim, 5 Hours<sup>22</sup></b> <b>AHD245=After Hours Dim, 6 Hours<sup>22</sup></b> <b>AHD255=After Hours Dim, 7 Hours<sup>22</sup></b> <b>AHD355=After Hours Dim, 8 Hours<sup>22</sup></b> <b>DALI=DALI Drivers</b>	<b>BPC=Button Type Photocontrol</b> <b>PR=NEMA 3-PIN Photocontrol Receptacle</b> <b>PR7=NEMA 7-PIN Photocontrol Receptacle<sup>21</sup></b> <b>SPB2=Dimming Occupancy Sensor with Bluetooth Interface, 8' - 20' Mounting<sup>34</sup></b> <b>SPB4=Dimming Occupancy Sensor with Bluetooth Interface, 21' - 40' Mounting<sup>34</sup></b> <b>MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height<sup>24</sup></b> <b>MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height<sup>24</sup></b> <b>MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height<sup>24,25</sup></b> <b>MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height<sup>24,25</sup></b> <b>MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height<sup>24</sup></b> <b>MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height<sup>24</sup></b> <b>ZW=WaveLinX Module and 4-PIN Receptacle</b> <b>ZD=WaveLinX Module with DALI driver and 4-PIN Receptacle</b> <b>SWPD4XX=WaveLinX Sensor Only, 7'-15'<sup>13,32,33</sup></b> <b>SWPD5XX=WaveLinX Sensor Only, 15'-40'<sup>13,32,33</sup></b> <b>WOBXX=WaveLinX Sensor with Bluetooth, 7'-15'<sup>13,32</sup></b> <b>WOFXX=WaveLinX Sensor with Bluetooth, 15'-40'<sup>13,32</sup></b> <b>LWR-LW=Enlighted Sensor, 8'-16' Mounting Height<sup>26</sup></b> <b>LWR-LN=Enlighted Sensor, 16'-40' Mounting Height<sup>26</sup></b> <b>DIM10-MS/DIM-L08=Synapse Occupancy Sensor (&lt;8' Mounting)<sup>19</sup></b> <b>DIM10-MS/DIM-L20=Synapse Occupancy Sensor (9'-20' Mounting)<sup>19</sup></b> <b>DIM10-MS/DIM-L40=Synapse Occupancy Sensor (21'-40' Mounting)<sup>19</sup></b>	<b>OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V</b> <b>OA/RA1027=NEMA Photocontrol - 480V</b> <b>OA/RA101=NEMA Photocontrol - 347V</b> <b>OA/RA1013=Photocontrol Shorting Cap</b> <b>OA/RA1014=120V Photocontrol</b> <b>MA1252=10kV Surge Module Replacement</b> <b>MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon</b> <b>MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon</b> <b>MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon</b> <b>MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon</b> <b>MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon</b> <b>MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon</b> <b>MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon</b> <b>MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon</b> <b>MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon</b> <b>MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon</b> <b>MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon</b> <b>MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon</b> <b>MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon</b> <b>FSIR-100=Wireless Configuration Tool for Occupancy Sensor<sup>24</sup></b> <b>GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares</b> <b>GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares</b> <b>GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares</b> <b>GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares</b> <b>GLEON-QM=Quick Mount Arm Kit<sup>11</sup></b> <b>GLEON-QMEA=Quick Mount Extended Arm Kit<sup>12</sup></b> <b>LS/HSS=Field Installed House Side Shield<sup>28,30</sup></b> <b>LS/GRSBK=Glare Reducing Shield, Black<sup>23,30</sup></b> <b>LS/GRSWH=Glare Reducing Shield, White<sup>23,30</sup></b> <b>LS/PFS=Perimeter Shield, Black<sup>15</sup></b> <b>WOLC-7P-10A=WaveLinX Outdoor Control Module<sup>18,31</sup></b> <b>SWPD4-XX=WaveLinX Wireless Sensor, 7'-15' Mounting Height<sup>13,19,22,33</sup></b> <b>SWPD5-XX=WaveLinX Wireless Sensor, 15'-40' Mounting Height<sup>13,19,22,33</sup></b>

NOTES:

- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
- DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
- Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. Not available with TH option.
- Not compatible with MS/4-LXX or MS/1-LXX sensors.
- Not compatible with extended quick mount arm (QMEA).
- Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA).
- Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A.
- 480V must utilize Wye system only. 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.)
- May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
- Factory installed.
- Maximum 8 light squares.
- Maximum 6 light squares.
- Requires ZW or ZD receptacle.
- Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option.
- Set of 4 pcs. One set required per Light Square.
- Not available with HA option.
- 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in SA2 through SA4 requires a larger housing, normally used for SA5 or SA6. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.
- Not available with Enlighted wireless sensors.
- Cannot be used with other control options.
- Low voltage control lead brought out 18" outside fixture.
- Not available if any "MS" sensor is selected. Motion sensor has an integral photocell.
- Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.
- Not for use with T4FT, T4W or SL4 optics. See IES files for details.
- The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information.
- Replace X with number of Light Squares operating in low output mode.
- Enlighted wireless sensors are factory installed only requiring network components LWP-EM-1, LWP-GW-1 and LWP-PoE8 in appropriate quantities.
- Not available with house side shield (HSS).
- Not for use with 5NQ, 5MQ, 5WQ or RW optics. A black trim plate is used when HSS is selected.
- CE is not available with the LWR, MS, MS/X, MS/DIM, BPC, PR or PR7 options. Available in 120-277V only.
- One required for each Light Square.
- Requires PR7.
- Replace XX with sensor color (WH, BZ or BK.)
- WAC Gateway required to enable field-configurability. Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed.
- Smart device with mobile application required to change system defaults. See controls section for details.

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

Product Family	Camera Type	Data Backhaul
<b>L=LumenSafe Technology</b> 	<b>D=Standard Dome Camera</b> <b>H=Hi-Res Dome Camera</b> <b>Z=Remote PTZ Camera</b>	<b>C=Cellular, No SIM</b> <b>A=Cellular, AT&amp;T</b> <b>V=Cellular, Verizon</b> <b>S=Cellular, Sprint</b> <b>R=Cellular, Rogers</b> <b>W=Wi-Fi Networking w/ Omni-Directional Antenna</b> <b>E=Ethernet Networking</b>

## 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.

Catalog #	ARB-B3-LED-D1-T5-**	Type	
Project		S2	
Comments		Date	
Prepared by			

## 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 combined with excellent mechanical an exterior exposure qualities display greater than twice as much gloss retention. RAL and custom color matches available. Finish is compliant with ASTM B117 3000hr salt spray standard.

### Warranty

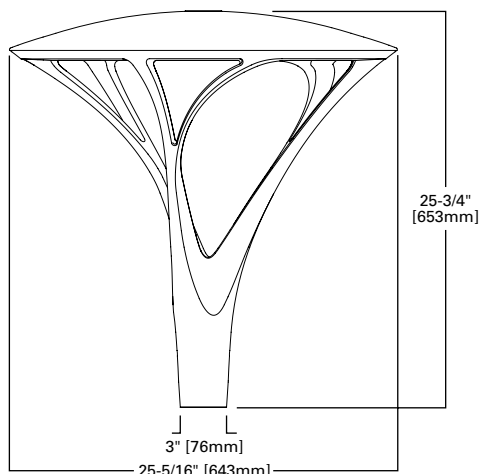
Five-year warranty.



## ARB ARBOR POST TOP

DECORATIVE LUMINAIRE

## DIMENSIONS



### CERTIFICATION DATA

UL/cUL Listed  
ANSI C136.31 1.5G Vibration Tested  
IEG 60529 IP66 Housing  
ASTM B117 SaH Spray Tested  
ASTM A3560 Low Copper Alloy  
ISO 9001  
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  
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.]

**POWER AND LUMENS**

Lumen Package	B1	B2	B3	B4	
<b>Drive Current</b>					
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	
<b>Optics</b>					
<b>Type II</b>	Lumens	2,045	3,994	7,362	--
	BUG Rating	B1-U1-G1	B1-U2-G2	B3-U2-G3	--
<b>Type III</b>	Lumens	2,324	4,534	8,451	--
	BUG Rating	B1-U1-G1	B1-U2-G2	B2-U2-G3	--
<b>Type IV</b>	Lumens	2,408	4,691	8,740	--
	BUG Rating	B1-U1-G1	B1-U2-G2	B2-U2-G3	--
<b>Type V</b>	Lumens	2,311	4,529	8,511	9,464
	BUG Rating	B2-U1-G1	B3-U2-G2	B3-U2-G3	B3-U2-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

**ORDERING INFORMATION** ARB-B3-LED-DI-T5-\*\*

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

Product Family <sup>1,2</sup>	Lumens <sup>3</sup>	Lamp Type	Voltage	Distribution	Color <sup>7</sup>
<b>ARB=Arbor Post Top</b>	<b>B1=Nominal 2,300 Lumens</b> <b>B2=Nominal 4,500 Lumens</b> <b>B3=Nominal 8,500 Lumens</b> <b>B4=Nominal 9,500 Lumens <sup>4</sup></b>	<b>LED=Solid State Light</b> <b>Emmitting Diodes</b>	<b>D1=Dimming Driver (120-277V)</b> <b>347=347V <sup>5</sup></b> <b>480=480V <sup>5,6</sup></b>	<b>T2=Type II</b> <b>T3=Type III</b> <b>T4=Type IV</b> <b>T5=Type V</b>	<b>AP=Grey</b> <b>BZ=Bronze</b> <b>BK=Black</b> <b>DP=Dark Platinum</b> <b>GM=Graphite Metallic</b> <b>WH=White</b>
<b>Options (Add as Suffix)</b>			<b>Accessories (Order Separately) <sup>19</sup></b>		
<p>7030=70 CRI / 3000K CCT <sup>8</sup></p> <p>7035=70 CRI / 3500K CCT <sup>8</sup></p> <p>8030=80 CRI / 3000K CCT <sup>8</sup></p> <p>8035=80 CRI / 3500K CCT <sup>8</sup></p> <p>20MSP=20kV MOV Surge Protective Device</p> <p>20K=20kV UL 1449 Fused Surge Protective Device</p> <p>PC=Button Type Photocontrol</p> <p>PER=NEMA 3-PIN Twistlock Photocontrol Receptacle</p> <p>PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle</p> <p>HA=50°C High Ambient Temperature <sup>9</sup></p> <p>SPB1=Dimming Occupancy Sensor with Bluetooth Interface, &lt;8' Mounting <sup>23</sup></p> <p>SPB2=Dimming Occupancy Sensor with Bluetooth Interface, 8'-20' Mounting <sup>23</sup></p> <p>SPB4=Dimming Occupancy Sensor with Bluetooth Interface, 21'-40' Mounting <sup>23</sup></p> <p>MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height <sup>10,11</sup></p> <p>MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height <sup>10,11</sup></p> <p>MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height <sup>10,11</sup></p> <p>MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height <sup>10,11</sup></p> <p>MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height <sup>10,11</sup></p> <p>MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height <sup>10,11</sup></p> <p>ZD=DALI-enabled 4-PIN Twistlock Receptacle <sup>10,11,12,13,14</sup></p> <p>ZW=Wavelinx-enabled 4-PIN Twistlock Receptacle <sup>10,11,12,13</sup></p> <p>SWPD4WH=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, White <sup>10,11,12,13,15</sup></p> <p>SWPD5WH=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, White <sup>10,11,12,13,15</sup></p> <p>LWR-LW=Enlighted Wireless Sensor, Wide Lens for 8' - 16' Mounting Height <sup>10,16</sup></p> <p>LWR-LN=Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height <sup>10,16</sup></p> <p>5LTD=Fifth Light Dali Driver <sup>10,17</sup></p> <p>DIM=0-10V External Dimming Leads <sup>10,18</sup></p> <p>VS=Tempered Glass Vandal Shield</p> <p>CC=Coastal Construction <sup>24</sup></p>			<p>ARSA-XX=Single Pole Mount Arm <sup>20</sup></p> <p>ARWM-XX=Wall Mount Arm</p> <p>ARTA15-XX=Twin Mount Bracket <sup>21</sup></p> <p>ARPA4-XX=Pole Adapter 4" O.D. Pole</p> <p>FSIR-100=Wireless Configuration Tool for Occupancy Sensor <sup>21</sup></p> <p>SWPD4-WH=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, White <sup>13,15</sup></p> <p>SWPD5-WH=Wavelinx Wireless Sensor, 16' - 40' Mounting Height, White <sup>13,15</sup></p> <p>WOLC-7P-10A=Wavelinx Outdoor Control Module (7-PIN) <sup>10,22</sup></p>		

- NOTES:**
- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional information.
  - Fixture slippits over standard 2-3/8" tenon. 3" O.D. tenon when used with a ARPA4-XX 4" O.D. pole adapter.
  - Standard 4000K CCT, nominal 70CRI.
  - B4 only available with Type V distribution.
  - Requires the use of a step down transformer.
  - 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).
  - Custom and RAL color matching available upon request. Consult your lighting representative for more information.
  - Extended lead times apply. Use dedicated IES files when performing layouts.
  - Not available with B3 lumen package in Type II, III, or IV distributions.
  - Controls system is not available with photocontrol (PC), photocontrol receptacle (PER or PER7), or other controls systems (MS, ZD, ZW, LWR, 5LTD, or DIM).
  - Not available with HA option.
  - Sensor passive infrared (PIR) may be overly sensitive below -20°C (-4°F).
  - 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.
  - Not available on B1 or B5 lumen packages.
  - Requires 4-PIN twistlock receptacle (ZD or ZW) option.
  - 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.
  - Not available in B4 lumen package.
  - Low voltage control leads brought 18" outside fixture.
  - Replace XX with paint color.
  - Fits on 3" O.D. x 4" long tenon for nominal 4-1/2" O.D. pole top.
  - 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.
  - 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.
  - Smart device with mobile application required to change system defaults. See controls section for details.
  - Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.



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

Specifications and dimensions subject to change without notice.

## DESCRIPTION

The Halo Surface LED Downlight (SLD) incorporates WaveStream™ technology to create an ultra-low profile surface mounting luminaire with the performance and look of a traditional downlight. SLD6-1200 UNV series is designed for installation in many 4" x 2-1/8" deep square junction boxes. Accessory mounting kit allows retrofit in 5" and 6" IC and Non-IC recessed housings.\* Suitable for residential or commercial installations. Ideal for closets, storage areas, attics and basements. Compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5).

Catalog #	SLD612840UNVWH	Type
Project		S3
Comments		Date
Prepared by		

## SPECIFICATION FEATURES

### CONSTRUCTION

- Die cast aluminum trim ring, and die formed aluminum frame

### OPTICS

- WaveStream™ technology provides uniform luminance from a low profile flat lens
- AccuAim™ optics provide directional control for the "cone-of-light" beam distribution of a traditional downlight.
- Precision molded lens features high transmission polymer with UV stabilized protecting film

### DESIGNER TRIMS

#### Accessories (sold separately)

SLD designer trims are accessory rings that attach to the SLD for a permanent finish.\* Refer to SLD accessories specification sheet for details.

- White (Paintable)
- Satin Nickel
- Tuscan Bronze

\*SLD accessory trims attach with permanent adhesion and are not interchangeable after installation.

### ELECTRICAL JUNCTION BOX MOUNTING

- SLD may be used in compatible electrical junction boxes in direct contact with insulation including spray foam insulation
- Suitable for installation in many 4" x 2-1/8" deep square electrical junction boxes.
- Driver consumes 3 cubic inches of junction box.
- Compatible with other junction boxes with accessory SLD6EXT extension spacer ring.
- Installer must ensure compatibility of fit, wiring and proper mounting in the electrical junction box. This includes all applicable national and local electrical and building codes.

- Proprietary Slot-N-Lock quick installation system for junction box installation
- T-bracket with Slot-N-Lock mounting tabs included

### OPTIONAL - RECESSED HOUSING MOUNTING

- Accessory SLD6ACCKIT required for mounting in 5" and 6" enclosed recessed housings
- May be installed in IC recessed housings in direct contact with insulation
- \* Note:** Not for use in recessed housings in direct contact with spray foam insulation. Refer to NEMA LSD 57-2013
- The SLD6 may be used with any 5 or 6 inch diameter recessed housing constructed of steel or aluminum with an internal volume that exceeds 107.9 in<sup>3</sup>.

### LED

- Linear LED arrays are integrated in trim perimeter
- Color Temperature: 2700K, 3000K, 3500K, 4000K
- CRI options: 80 and 90
  - 90 CRI can be used for California Title 24 compliance/certified to Title 20
  - 80 CRI can be used to comply with California Title 24 Non-Residential Lighting Controls as a LED luminaire.

### WARRANTY

Cooper Lighting Solutions provides a five year limited warranty on the SLD LED

### LED CHROMATICITY

- A tight chromaticity specification ensures LED color uniformity, sustainable Color Rendering Index (CRI) and Correlated Color Temperature (CCT) over the useful life of the LED
- LED chromaticity of 3 SDCM exceeds ENERGY STAR® color standards per ANSI.

- 90 CRI model features high color performance with R9 greater than 50
- Every Halo LED is quality tested, measured, and serialized in a permanent record to register lumens, wattage, CRI and CCT.
- Halo LED serialized testing and measurement ensures color and lumen consistency on a per-unit basis, and validates long-term product consistency over time

### ELECTRICAL CONNECTIONS Junction Box

- Compatible with 4" x 2-1/8" deep square boxes
- Supply Wire Adapter with LED quick connector included
- LED connector is a non-screwbase luminaire disconnect for tool-less installation

### Optional - Recessed Housings

- Accessory SLD6ACCKIT required.
- LED connector is compatible with Halo 5" H550 Series and 6" H750, H2750 Series LED Housings
- LED Connector meets California Title-24 high-efficacy luminaire standard as a non-screw base

### LED DRIVER

- Driver is a 120V-277V universal voltage input, high efficiency, dimmable electronic power supply providing DC power to the LED arrays
- Driver features high power factor, low THD, and has integral thermal protection in the event of over temperature or internal failure
- Driver is replaceable if it should be required
- If dimming is not required the fixture may be operated from a switch



## SLD6 1200 UNV Series

### Universal Voltage

#### SLD6128xxWHUNVJB

80CRI

2700K, 3000K, 3500K, and 4000K

#### SLD6129xxWHUNVJB

90CRI

2700K, 3000K, 3500K, and 4000K

### 6" Surface LED Downlight

### High Lumen 1200 Series Universal Voltage 120V-277V

### Suitable for ceiling or wall electrical junction boxes

### ENERGY DATA

	80 CRI	90 CRI
Lumens (4000K models)	1215	1000
Input Voltage	120V-277V	120V-277V
Frequency	50/60 Hz	50/60 Hz
Input Current	0.12 A	0.12 A
Input Power	14.8 W	14.8 W
Efficiency (4000K models)	82 lm/W	68 lm/W
THD	≤ 20%	
Power Factor	≥ 0.90	
T Ambient	-30 - +40°C	
Sound Rating	Class A	

### NOMENCLATURE

#### SLD612 8 30 WH UNV JB

612 = 6" SLD 1200 Series

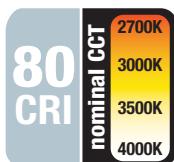
8 = >80 CRI

30 = 3000K

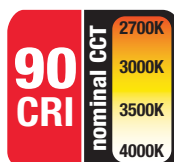
WH = Matte White

UNV = Universal Voltage 120V-277V

JB = Junction Box Kit only



Refer to ENERGY STAR® Certified Products List.



Refer to ENERGY STAR® Qualified Products List. Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Appliance Efficiency Database under JAB. Indoor LED nominal CCT of 4000K or less.

Project		Catalog #	GPC-SA1C-740-U-TT2-QM-**-HCC	Type	S4
Prepared by		Notes		Date	



# McGraw-Edison

## GPC Galleon Pedestrian Companion

Area / Site Luminaire

### Typical Applications

Outdoor • Parking Lots • Walkways • Roadways • Building Areas

### Interactive Menu

- Ordering Information [page 2](#)
- Product Specifications [page 2](#)
- Optical Configurations [page 3](#)
- Energy and Performance Data [page 4](#)
- Control Options [page 6](#)

### Product Certifications



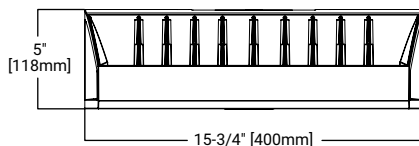
### Product Features



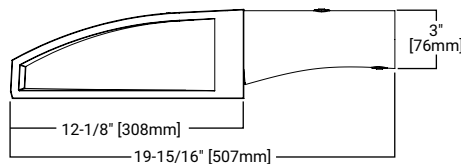
### Quick Facts

- Choice of sixteen high-efficiency, patented AccuLED Optics™
- Quick mount pole or mast-arm mounting configurations
- Eight lumen packages from 3,215 up to 17,056 lumens
- IP66 rated housing and LED light squares

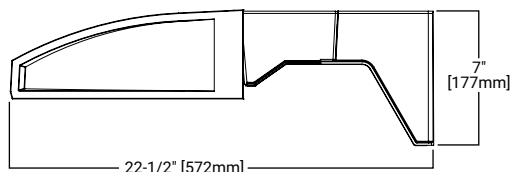
### Dimensional Details



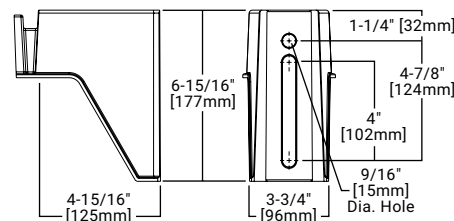
Mast Arm Mount



Mast Arm Mount



Quick Mount Arm (Pole Mounting Details)



Ordering Information

GPC-SAIC-740-U-TT2-QM-\*\*-HCC

SAMPLE NUMBER: GPC-SA2C-740-U-T4FT-GM

Product Family	Light Engine		Color Temperature	Voltage	Distribution	Mounting Options	Finish
	Configuration	Drive Current					
GPC=Galleon Pedestrian Companion	SA1=1 Square SA2=2 Squares <sup>2</sup>	A=615mA B=800mA C=1000mA D=1200mA <sup>4</sup>	722=70CRI, 2200K 727=70CRI, 2700K 730=70CRI, 3000K 735=70CRI, 3500K 740=70CRI, 4000K 750=70CRI, 5000K 760=70CRI, 6000K 827=80CRI, 2700K 830=80CRI, 3000K AMB=Amber, 590nm <sup>3,4</sup>	U=120-277V 1=120V 2=208V 3=240V 4=277V 8=480V <sup>6,7</sup> 9=347V <sup>6</sup>	TT2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I 5NQ=Type V Square Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide AFL=Automotive Frontline	QM=Quick Mount Arm for Round or Square Pole <sup>4,13</sup> MA=2-3/8" Mast Arm <sup>2,14</sup>	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White
Options (Add as Suffix) <sup>1</sup>			Controls and Systems Options (Add as Suffix)		Accessories (Order Separately)		
F=Single Fused (120, 277 or 347V. Must Specify Voltage) FF=Double Fused (208, 240 or 480V. Must Specify Voltage) 10K=10kV Surge Module 20K=20kV UL 1449 Fused Surge Protective Device DIM=External 0-10V Dimming Leads <sup>9,10</sup> L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right HSS=Factory Installed House Side Shield <sup>23</sup> GRSBK=Factory Installed Glare Shield, BK <sup>4,27</sup> GRSWH=Factory Installed Glare Shield, WH <sup>4,27</sup> UPL=Uplight Housing <sup>13</sup> HA=50°C High Ambient <sup>12</sup> LCF=Light Square Trim Plate Painted to Match Housing <sup>22</sup> MT=Factory Installed Mesh Top CC=Coastal Construction finish <sup>5</sup> CE=CE Marking and Small Terminal Block <sup>24</sup> AHD145=After Hours Dim, 5 Hours <sup>16</sup> AHD245=After Hours Dim, 6 Hours <sup>16</sup> AHD255=After Hours Dim, 7 Hours <sup>16</sup> AHD355=After Hours Dim, 8 Hours <sup>16</sup> DALI=DALI Driver <sup>11</sup>			BPC=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) PR=NEMA 3-PIN Twistlock Photocontrol Receptacle PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle <sup>15</sup> SPB1=Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting <sup>19,33</sup> SPB2=Dimming Occupancy Sensor with Bluetooth Interface, 8'-20' Mounting <sup>19,33</sup> SPB4=Dimming Occupancy Sensor with Bluetooth Interface, 21'-40' Mounting <sup>19,33</sup> MS-LXX=Motion Sensor for On/Off Operation <sup>17,18,19</sup> MS/DIM-LXX=Motion Sensor for Dimming Operation <sup>17,18,19</sup> ZW=WaveLinX-enabled 4-PIN Twistlock Receptacle <sup>29,30</sup> ZD=WaveLinX Module with DALI driver and 4-PIN Receptacle <sup>29,30</sup> SWPD4XX=WaveLinX Sensor Only, 7'-15' <sup>31,32</sup> SWPD5XX=WaveLinX Sensor Only, 15'-40' <sup>31,32</sup> WOBXX=WaveLinX Sensor with Bluetooth, 7'-15' <sup>31,32</sup> WOFXX=WaveLinX Sensor with Bluetooth, 15'-40' <sup>31,32</sup> LWR-LW=Enlighted Wireless Sensor, Wide Lens for 8'-16' Mounting Height <sup>19,20,21</sup> LWR-LN=Enlighted Wireless Sensor, Narrow Lens for 16'-40' Mounting Height <sup>19,20,21</sup>		OA/RA1013=Photocontrol Shorting Cap <sup>28</sup> OA/RA1016=NEMA Photocontrol - Multi-Tap 105-285V <sup>28</sup> OA/RA1201=NEMA Photocontrol - 347V <sup>28</sup> OA/RA1027=NEMA Photocontrol - 480V <sup>28</sup> MA1252=10kV Circuit Module Replacement MA1059XX=Thru-branch Back Box (Must Specify Color) LS/HSS=Field Installed House Side Shield <sup>25,23</sup> LS/GRSBK=Glare Shield, Black <sup>8,25,27</sup> LS/GRSWH=Glare Shield, White <sup>8,25,27</sup> LS/PFS=Perimeter Shield, Black FSIR-100=Wireless Configuration Tool for Occupancy Sensor <sup>17</sup> WOLC-7P-10A=WaveLinX Outdoor Control Module (7-pin) <sup>26,29</sup> SWPD4-XX=WaveLinX Wireless Sensor, 7' - 15' Mounting Height <sup>29,30,31,32</sup> SWPD5-XX=WaveLinX Wireless Sensor, 15' - 40' Mounting Height <sup>29,30,31,32</sup>		
<p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>DesignLight Consortium® Qualified. Refer to <a href="http://www.designlights.org">www.designlights.org</a>, Qualified Products List under Family Models for details.</li> <li>Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional information</li> <li>Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option.</li> <li>Not available with HA option.</li> <li>Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.</li> <li>Require the use of a step down transformer. Not available in combination with sensor options at 1200mA.</li> <li>480V must use Wye system only. 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).</li> <li>Reserved.</li> <li>Cannot be used with other control options.</li> <li>Low voltage control leads extended 18" from fixture.</li> <li>Not available in 1200mA. When used with CBP or HA options, only available with single light square.</li> <li>Not available in 1200mA, UPL or CBP options. Available with single light square.</li> <li>Quick mount arm adapter is factory installed. Pole mounting bracket shipped in box. Suitable for 1.5G. Fits square and round poles up to 6" O.D.</li> <li>Mast arm adapter factory installed (2-3/8" O.D. arm only). Suitable for 3G vibration.</li> <li>Compatible with standard 3-PIN photocontrols, 5-PIN or 7-PIN ANSI controls.</li> <li>Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.</li> <li>The FSIR-100 configuration tool is required to adjust parameters such as high and low modes, sensitivity, time delay and cutoff. Consult your lighting representative at Cooper Lighting Solutions for more information.</li> <li>Replace LXX with L08 (&lt;8' mounting), L20 (8'-20' mounting) or L40W (21'-40' mounting.)</li> <li>Includes integral photosensor.</li> <li>Enlighted wireless sensors are factory installed requiring network components in appropriate quantities.</li> <li>Bronze sensor is shipped with Bronze fixtures. White sensor shipped on all other housing color options.</li> <li>Not available with HSS or GRS options.</li> <li>Not for use with 5NQ, 5MQ, 5WQ or RW optics. The light square trim plate is painted black when the HSS option is selected.</li> <li>CE is not available with the 1200, DALI, LWR, MS, MS/DIM, BPC, PR or PR7 options. Available in 120-277V only.</li> <li>One required for each light square.</li> <li>Requires PR7.</li> <li>Not for use with T4FT, T4W or SL4 optics.</li> <li>Cannot be used in conjunction with additional photocontrol or other controls systems (BPC, PR, PR7, MS, LWR).</li> <li>WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed.</li> <li>Requires ZW or ZD receptacle.</li> <li>Replace XX with sensor color (WH, BZ, or BK).</li> <li>Smart device with mobile application required to change system defaults. See controls section for details.</li> </ol>							

Product Specifications

Construction

- Driver enclosure thermally isolated from optics for optimal thermal performance
- Die-cast aluminum heat sinks
- IP66 rated housing
- 1.5G vibration rated

Optics

- Patented, high-efficiency injection-molded AccuLED Optics technology
- 13 optical distributions

Electrical

- LED driver assembly mounted for ease of maintenance
- Standard with 0-10V dimming
- Optional 10kV or 20kV surge module
- Suitable for operation in -40C to 40C ambient environments. Optional 50C high ambient (HA) configuration.

Mounting

- Gasketed and zinc plated rigid steel mounting attachment

- "Hook-N-Lock" mechanism for easy installation

Finish

- Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Heat sink is powder coated black
- RAL and custom color matches available
- Coastal Construction (CC) option available

Warranty

- Five-year warranty

Project	WILDHOUSE VILLAGE	Catalog #	WP1 = GWC-SA1C-740-U-T4FT WP2 = GWC-SA1C-740-U-SLL	Type	WP1 & WP2
Prepared by		Notes		Date	



# McGraw-Edison

## GWC Galleon Wall

Wall Mount Luminaire

### Typical Applications

Exterior Wall • Walkway

### Interactive Menu

- Ordering Information [page 2](#)
- Product Specifications [page 2](#)
- Optical Configurations [page 3](#)
- Energy and Performance Data [page 4](#)
- Control Options [page 6](#)

### Product Certifications



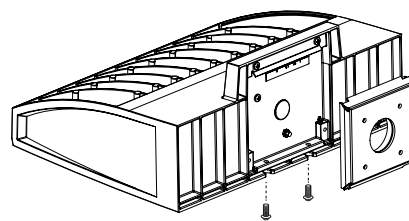
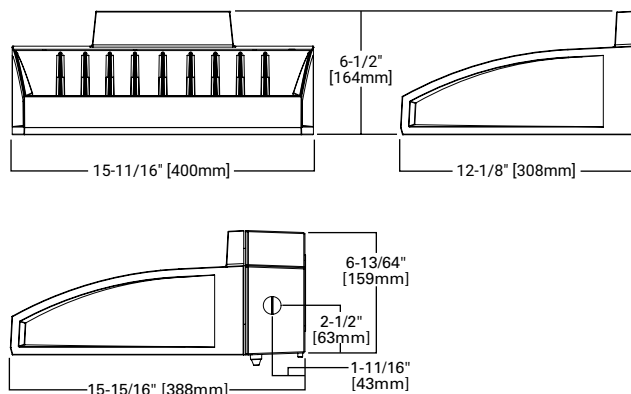
### Quick Facts

- Choice of thirteen high-efficiency, patented AccuLED Optics™
- Downward and inverted wall mounting configurations
- Eight lumen packages from 3,215 up to 17,056
- Efficacies up to 154 lumens per watt

### Connected Systems

- WaveLinx
- Enlighted

### Dimensional Details





Ordering Information

SAMPLE NUMBER: GWC-SA2C-740-U-T4FT-GM

WPI = GWC-SAIC-740-U-T4FT

WP2 = GWC-SAIC-740-U-SLL

Product Family <sup>1</sup>	Light Engine		Color Temperature	Voltage	Distribution	Finish
	Configuration	Drive Current				
GWC-Galleon Wall	SA1=1 Square SA2=2 Squares <sup>2</sup>	A=615mA B=800mA C=1000mA D=1200mA <sup>4</sup>	722=70CRI, 2200K 727=70CRI, 2700K 730=70CRI, 3000K 735=70CRI, 3500K 740=70CRI, 4000K 750=70CRI, 5000K 760=70CRI, 6000K 827=80CRI, 2700K 830=80CRI, 3000K AMB=Amber, 590nm <sup>3,4</sup>	U=120-277V 1=120V 2=208V 3=240V 4=277V 8=480V <sup>6,7</sup> 9=347V <sup>6</sup>	T2=Type II T3=Type III T4F=Type IV Forward Thru T4W=Type IV Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I 5NQ=Type V Square Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White

Options (Add as Suffix)	Controls and Systems Options (Add as Suffix)	Accessories (Order Separately)
F=Single Fused (120, 277 or 347V. Must Specify Voltage) FF=Double Fused (208, 240 or 480V. Must Specify Voltage) 10K=10kV Surge Module 20K=Series 20kV UL 1449 Surge Protective Device DIM=External 0-10V Dimming Leads <sup>9,10</sup> CBP=Battery Pack with Back Box, Cold Weather Rated <sup>2,4,14,33</sup> CBP-CEC=Battery Pack with Back Box, Cold Weather Rated, CEC compliant <sup>2,4,14</sup> L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right HSS=Factory Installed House Side Shield <sup>23</sup> GRSBK=Factory Installed Glare Shield, BK <sup>4,27</sup> GRSWH=Factory Installed Glare Shield, WH <sup>4,27</sup> UPL=Uplight Housing <sup>13</sup> HA=50°C High Ambient <sup>12</sup> LCF=Light Square Trim Plate Painted to Match Housing <sup>22</sup> MT=Factory Installed Mesh Top CC=Coastal Construction finish <sup>5</sup> CE=CE Marking and Small Terminal Block <sup>24</sup> AHD145=After Hours Dim, 5 Hours <sup>16</sup> AHD245=After Hours Dim, 6 Hours <sup>16</sup> AHD255=After Hours Dim, 7 Hours <sup>16</sup> AHD355=After Hours Dim, 8 Hours <sup>16</sup> DALI=DALI Driver <sup>11</sup>	BPC=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) PR=NEMA 3-PIN Twistlock Photocontrol Receptacle PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle <sup>15</sup> SPB1=Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting <sup>19,34</sup> SPB2=Dimming Occupancy Sensor with Bluetooth Interface, 8' - 20' Mounting <sup>19,34</sup> SPB4=Dimming Occupancy Sensor with Bluetooth Interface, 21' - 40' Mounting <sup>19,34</sup> MS-LXX=Motion Sensor for On/Off Operation <sup>17,18,19</sup> MS/DIM-LXX=Motion Sensor for Dimming Operation <sup>17,18,19</sup> ZW=WaveLinX-enabled 4-PIN Twistlock Receptacle <sup>29,30</sup> ZD=WaveLinX Module with DALI driver and 4-PIN Receptacle <sup>29,30</sup> SWPD4XX=WaveLinX Sensor Only, 7'-15' <sup>31,32</sup> SWPD5XX=WaveLinX Sensor Only, 15'-40' <sup>31,32</sup> WOBXX=WaveLinX Sensor with Bluetooth, 7'-15' <sup>31,32</sup> WOFXX=WaveLinX Sensor with Bluetooth, 15'-40' <sup>31,32</sup> LWR-LW=Enlighted Wireless Sensor, Wide Lens for 8'-16' Mounting Height <sup>19,20,21</sup> LWR-LN=Enlighted Wireless Sensor, Narrow Lens for 16'-40' Mounting Height <sup>19,20,21</sup>	OA/RA1013=Photocontrol Shorting Cap <sup>28</sup> OA/RA1016=NEMA Photocontrol - Multi-Tap 105-285V <sup>28</sup> OA/RA1201=NEMA Photocontrol - 347V <sup>28</sup> OA/RA1027=NEMA Photocontrol - 480V <sup>28</sup> MA1252=10kV Circuit Module Replacement MA1059XX=Thru-branch Back Box (Must Specify Color) LS/HSS=Field Installed House Side Shield <sup>23,25</sup> LS/GRSBK=Glare Shield, Black <sup>8,25,27</sup> LS/GRSWH=Glare Shield, White <sup>8,25,27</sup> LS/PFS=Perimeter Shield, Black FSIR-100=Wireless Configuration Tool for Occupancy Sensor <sup>17</sup> WOLC-7P-10A=WaveLinX Outdoor Control Module (7-pin) <sup>26,29</sup> SWPD4-XX=WaveLinX Wireless Sensor, 7' - 15' Mounting Height <sup>29,30,31,32</sup> SWPD5-XX=WaveLinX Wireless Sensor, 15' - 40' Mounting Height <sup>29,30,31,32</sup>

NOTES:

- DesignLight Consortium® Qualified. Refer to www.designlights.org, Qualified Products List under Family Models for details.
- Two light squares with CBP options limited to 25°C. Not available in combination with sensor options at 1200mA.
- Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option.
- Not available with HA option.
- Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.
- Require the use of a step down transformer. Not available in combination with sensor options at 1200mA.
- 480V must use Wye system only. 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).
- Reserved.
- Cannot be used with other control options.
- Low voltage control leads extended 18" from fixture.
- Not available in 1200mA. When used with CBP or HA options, only available with single light square.
- Not available in 1200mA, UPL or CBP options. Available with single light square.
- Not available with SL2, SL3, SL4, HA, CBP, PR or PR7 options.
- Operates a single light square only. Operates at -20°C to +40°C. Backbox is non-IP rated. Control option limited to BPC.
- Compatible with standard 3-PIN photocontrols, 5-PIN or 7-PIN ANSI controls.
- Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.
- The FSIR-100 configuration tool is required to adjust parameters such as high and low modes, sensitivity, time delay and cutoff. Consult your lighting representative at Cooper Lighting Solutions for more information.
- Replace LXX with L08 (<8' mounting), L20 (8'-20' mounting) or L40W (21'-40' mounting.)
- Includes integral photosensor.
- Enlighted wireless sensors are factory installed requiring network components in appropriate quantities.
- White sensor shipped on all housing color options.
- Not available with 5NQ, 5MQ, 5WQ or RW optics. The light square trim plate is painted black when the HSS option is selected.
- CE is not available with the 1200, DALI, LWR, MS, MS/DIM, BPC, PR or PR7 options. Available in 120-277V only.
- One required for each light square.
- Requires PR7.
- Not for use with T4FT, T4W or SL4 optics.
- Cannot be used in conjunction with additional photocontrol or other controls systems (BPC, PR, PR7, MS, LWR).
- WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed.
- Requires ZW or ZD receptacle.
- Replace XX with sensor color (WH, BZ, or BK).
- Specify 120V or 277V.
- Smart device with mobile application required to change system defaults. See controls section for details.

Product Specifications

Construction

- Driver enclosure thermally isolated from optics for optimal thermal performance
- Die-cast aluminum heat sinks
- IP66 rated housing
- 1.5G vibration rated

Optics

- Patented, high-efficiency injection-molded AccuLED Optics technology
- 13 optical distributions
- IDA Certified (3000K CCT and warmer only)

Electrical

- LED driver assembly mounted for ease of maintenance
- Standard with 0-10V dimming
- Optional 10kV or 20kV surge module
- Suitable for operation in -40C to 40C ambient environments. Optional 50C high ambient (HA) configuration.

Mounting

- Gasketed and zinc plated rigid steel mounting attachment

- "Hook-N-Lock" mechanism for easy installation

Finish

- Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Heat sink is powder coated black
- RAL and custom color matches available
- Coastal Construction (CC) option available

Warranty

- Five-year warranty



# MERU Series

LED GENERAL & EMERGENCY LIGHTING



PROJECT: \_\_\_\_\_  
 FIXTURE TYPE: **WP3**  
 LOCATION: \_\_\_\_\_  
 CONTACT/PHONE: \_\_\_\_\_

**CAT# - MERU-LED-AC-\*\***

## PRODUCT DESCRIPTION

The MERU Series is an architectural, low-profile outdoor light, offering “normally On” AC and emergency lighting with powerful LED illumination. The housing is fully sealed and gasketed, and has an IP65 rating. Designed for wall mounting with universal K/O pattern in back-plate for easy installation to most standard size junction boxes. Includes a single 1/2” NPT conduit entry in the top, center of the housing. Illumination provided by 8 high power LEDs which achieve 1,600 lumens in AC and 600 lumens in emergency. LED color at 4000K.

## PRODUCT SPECIFICATIONS

### CONSTRUCTION

Die cast aluminum housing with superior heat sink • Scratch resistant Polyester powder coat finish • UV resistant polycarbonate lens • Snap-fit housing and mounting plate are held together by four stainless steel clips • Universal mounting pattern molded into the back plate • 1/2" threaded top access for surface conduit installation • Silicone rubber seal with hollow center, shape adaptive design protects the electrical components • Junction box neoprene seal is attached to the back plate for a weather proof installation • Dark Bronze or White textured finish.

### ELECTRICAL

Dual voltage 120/277VAC 60Hz input • Solid state charging and switching • Battery low voltage disconnect • AC power indicator and test switch at the bottom of the unit • Standard with Self Diagnostics to monitor proper operation.

### LAMPS

Supplied with eight (8) LG SMD 4000K LED'S • L70 > 72,000hours • 17 Watts total (32 Watts with IH option) • 1600 Lumens in AC mode, 600 Lumens in Emergency mode • Full cut-off optics for Dark Sky compliance

### BATTERY

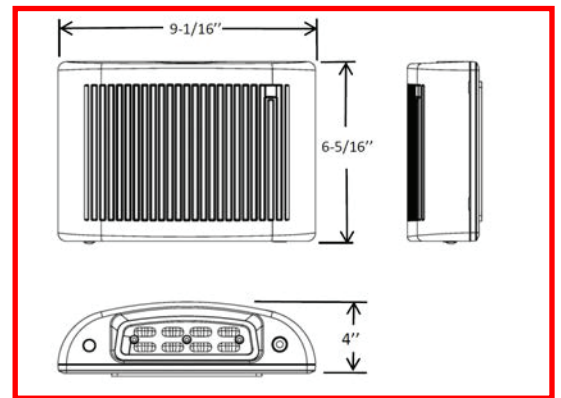
Maintenance-free, long-life rechargeable NiCad battery will operate fixture for a minimum of 90 minutes in the event of a power outage • 24 hour recharge after 90 minute discharge.

### CODE COMPLIANCE

UL924 • Listed for wet location applications (0°C-50°C) • Optional "IH" cold weather package for (-40°C-50°C) • IP65 Rated • NFPA 101 Life Safety Code compliant • NEC and OSHA compliant • DLC Listed • RoHS Compliant

### WARRANTY

5-year warranty. Product specifications subject to change without notice.



### ACEM Model (NiCad Battery Backup)

**Integral photocell:** Unit operates as a dusk to dawn luminaire and in the event of a power failure as an emergency light.

**Remote Switched:** The integral photocell can be defeated to allow remote switching for normal operation. In the event of a power failure unit operates as an emergency light.

## INSTALLATION

### MOUNTING

Suitable for indoor or outdoor wall mounting on junction box, or with surface conduit using the supplied 1/2" threaded top access • Mounting plate has molded universal mounting pattern for simple mounting over junction box.

**MERU-LED-AC-\*\***

## ORDERING INFORMATION

model	operation mode	housing color	options
MERU-LED	ACEM = General & Emergency Lighting → AC = General Lighting	DB = Dark Bronze WH = White BK = Black NK = Nickel	Self-Diagnostics & Photocell (Included Standard) IH = Internal Heater PIR = Passive Infra-Red Motion Sensor
Ordering Example: MERU-ACEM-DB			



Project		Catalog #	AXCS2A	Type	WP4
Prepared by		Notes		Date	



# Lumark

## Axcent

### Wall Mount Luminaire

#### Typical Applications

Wall • Surface • Inverted • Floodlighting • Pathway

### Interactive Menu

- Ordering Information [page 2](#)
- Mounting Details [page 3](#)
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- Energy and Performance Data [page 4](#)
- Control Options [page 5](#)

### Product Certifications



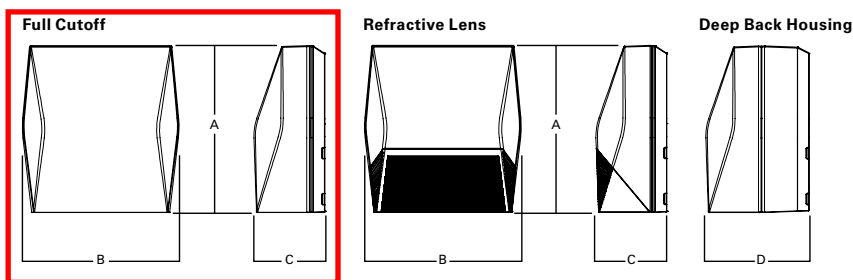
### Product Features



### Quick Facts

- Available in 14W - 123W (1,800 - 17,000 lumens) models
- Full cutoff and refractive lens models available
- Energy and maintenance savings up to 95% compared to HID
- Energy efficient illumination results in up to 144 LPW
- Replaces 70W up to 450W HID equivalents

### Dimensional Details



#### Dimensional Data

	AXCS Small	AXCL Large
A	8" [202mm]	11-1/2" [292mm]
B	7-1/2" [190mm]	10-3/4" [273mm]
C	3-5/8" [94mm]	4-7/8" [124mm]
D	6-1/8" [155mm]	7-1/8" [181mm]

Ordering Information

SAMPLE NUMBER: AXCS1A-AP-347V

Model Series <sup>1</sup>	LED Color Temperature	Color	Options (Add as Suffix)
<b>Full Cutoff</b> AXCS1A=14W AXCS2A=21W AXCS3A=27W AXCS4A=44W AXCS5A=52W AXCL6A=56W AXCL8A=72W AXCL10A=102W AXCL12A=123W  <b>Refractive Lens</b> AXCS1ARL=14W AXCS2ARL=21W AXCS3ARL=27W AXCS4ARL=44W AXCS5ARL=52W AXCL6ARL=56W AXCL8ARL=72W AXCL10ARL=102W AXCL12ARL=123W	<b>[Blank]=4000K, Neutral</b> C=5000K, Cool W=3000K, Warm	<b>[Blank]=Carbon Bronze (Standard)</b> WT=Summit White BK=Black AP=Grey GM=Graphite Metallic DP=Dark Platinum	347V=347V <sup>2</sup> 480V=480V <sup>2</sup> PC1=Photocontrol 120V <sup>3,4,5</sup> PC2=Photocontrol 208-277V, 347V, 480V <sup>4,5,6</sup> PC=Photocontrol 120-277V, 347V, 480V <sup>4,7,8</sup> KKIT=Knuckle Floodlight Mount <sup>7</sup> TRNKIT=Trunnion Floodlight Mount SFKIT=Slipfitter Floodlight Mount PMAKIT=Pole Mount Arm ZW=WaveLinx-enabled 4-PIN Twistlock Receptacle <sup>4,9</sup> ZW-SWPD4XX=WaveLinx Wireless Sensor, 7' - 15' Mounting Height <sup>4,9,10,11</sup> ZW-SWPD5XX=WaveLinx Wireless Sensor, 15' - 40' Mounting Height <sup>4,9,10,11</sup> LWR-LW=Enlighted Wireless Sensor, Wide Lens for 8' - 16' Mounting Height <sup>4,9,12</sup> LWR-LN=Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height <sup>4,9,12</sup> MSP-DIM-L12=Integrated Sensor for Dimming Operation, 8' - 12' Mounting Height <sup>4,9,13</sup> MSP-DIM-L30=Integrated Sensor for Dimming Operation, 12' - 30' Mounting Height <sup>4,9,13</sup> MSP-L12=Integrated Sensor for ON/OFF Operation, 8' - 12' Mounting Height <sup>4,9,13</sup> MSP-L30=Integrated Sensor for ON/OFF Operation, 12' - 30' Mounting Height <sup>4,9,13</sup> CBP=Cold Weather Battery Pack <sup>3,14,15,16,17,18</sup> CBP-CEC=Cold Weather Battery Pack, CEC compliant <sup>3,14,15,16,17,18</sup> 10K=10kV/10kA Surge Protection HA=50°C High Ambient <sup>15,19</sup> GRF=Glare Reducing Lens <sup>20</sup> AHD145=After Hours Dim, 5 Hours <sup>5,21</sup> AHD245=After Hours Dim, 6 Hours <sup>5,21</sup> AHD255=After Hours Dim, 7 Hours <sup>5,21</sup> AHD355=After Hours Dim, 8 Hours <sup>5,21</sup>

Accessories (Order Separately)<sup>22</sup>

VS/AXCS-XX=Vandal Shield Axcent Small <sup>7,23</sup> VS/AXCS-MS=Vandal Shield Axcent Small (With Motion Sensor) <sup>7,23</sup> WG/AXCS=Wire Guard Axcent Small <sup>7</sup> WG/AXCS-MS=Wire Guard Axcent Small (With Motion Sensor) <sup>7</sup> VS/AXCL-XX=Vandal Shield Axcent Large <sup>5,23</sup> VS/AXCL-MS=Vandal Shield Axcent (With Motion Sensor) <sup>5,23</sup> WG/AXCL=Wire Guard Axcent Large <sup>5</sup> WG/AXCL-MS=Wire Guard Axcent (With Motion Sensor) <sup>5</sup> BB/AXC=Axcent Lumen Select Back Box <sup>24</sup> BB/AXC-PC=Axcent Lumen Select Back Box with PC <sup>24</sup> BB/AXC-WT=Axcent Lumen Select Back Box, White <sup>24</sup> BB/AXC-WT-PC=Axcent Lumen Select Back Box with PC, White <sup>24</sup>	KKIT/AXCS-XX=Knuckle and Visor Floodlight Kit (For Axcent Small) <sup>7</sup> SFKIT/AXCS-XX=Slipfitter Floodlight Kit (For Axcent Small) <sup>7</sup> TRNKIT/AXCS-XX=Trunnion and Visor Floodlight Kit (For Axcent Small) <sup>7</sup> TRNKIT-XX=Trunnion Floodlight Kit (For Axcent Large) <sup>5</sup> SFKIT-XX=Slipfitter Floodlight Kit (For Axcent Large) <sup>5</sup> PMAKIT-XX=Pole Mount Kit ISHH-01=Integrated Sensor Programming Remote <sup>25</sup> 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 SWPD4-XX=WaveLinx Wireless Sensor, 7' - 15' Mounting Height <sup>10,11,26</sup> SWPD5-XX=WaveLinx Wireless Sensor, 15' - 40' Mounting Height <sup>10,11,26</sup>
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- NOTES:**
- DesignLights Consortium® Qualified. Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for details.
  - Transformer used only when ordered with motion sensor or AXCS1 through AXCS5 or AXCL6 fixture wattages.
  - Not available in 347 or 480 VAC.
  - Button photocontrol and any motion sensor (MSP, ZW, or LWR) not offered together.
  - Only available on AXCL6-AXCL12 models.
  - Used with 277, 347, and 480 VAC options.
  - Only available on AXCS1-AXCS5 models.
  - This configuration may contain materials that are not RoHS compliant. Contact your lighting representative for more information.
  - Uses deep back housing.
  - Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F). 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.
  - Replace XX with sensor color (WH, BZ, or BK).
  - 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.
  - The ISHH-01 accessory is required to adjust parameters.
  - Ambient operating temperature -20°C to 25°C for AXCL6 through AXCL10. Ambient operating temperature -20°C to 30°C on AXCS4 models. Ambient operating temperature -20°C to 40°C on AXCS1 through AXCS3 models.
  - Not available with AXCS5 or AXCL12 models.
  - Uses deep back housing for AXCS1, AXCL2, AXCS3, and AXCS4 models.
  - Not to be mounted in upwards / inverted orientation. Downlight wall mount only for AXCS1 through AXCS4.
  - In AXCS1, AXCS2, AXCS3, and AXCS4 models, CBP cannot be used with any sensor option (PC, MSP, ZW, or LWR).
  - Can not be ordered with CBP or PC options.
  - Use dedicated IES files on product website for lumen values and distributions.
  - Requires the use of PC1 or PC2 button photocontrol. See After Hours Dim supplemental guide for additional information.
  - Replace XX with color designation.
  - For use with full cutoff lens configurations only.
  - Lumen Select functionality not available in conjunction with any motion sensor option (MSP, ZW, or LWR). Photocontrol back box not available with any photocontrol or motion sensor options (PC, MSP, ZW, or LWR).
  - This tool enables adjustment to parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult you lighting representative for more information.
  - Requires 4-PIN twistlock receptacle (ZW) option.

Stock Ordering Information

Model Series <sup>1</sup>			
Full Cutoff		Refractive Lens	
AXCS1A=14W	AXCL10A=102W	AXCS1ARL=14W	AXCL10ARL=102W
AXCS2A=21W	AXCL12A=123W	AXCS2ARL=21W	AXCL12ARL=123W
AXCS3A=27W	AXCL6A-347V=56W	AXCS3ARL=27W	AXCL6ARL-347V=56W
AXCS4A=44W	AXCL8A-347V=72W	AXCS4ARL=44W	AXCL8ARL-347V=72W
AXCS5A=52W	AXCL10A-347V=102W	AXCS5ARL=52W	AXCL10ARL-347V=102W
AXCL6A=56W	AXCL12A-347V=123W	AXCL6ARL=56W	AXCL12ARL-347V=123W
AXCL8A=72W		AXCL8ARL=72W	

Note: All stock configurations are 4000K color temperatures, standard Carbon Bronze finish, and wall mount configuration.

Elegant, contemporary LED outdoor wall sconce features a rectilinear white acrylic shade with metal base. Cosmo creates soft up light to highlight structural features on an architectural facade as well as creating subtle ambient wayfinding. Available in two sizes and two finishes.

### Outstanding protection against the elements:

- Powder coat finishes
- Stainless Steel mounting hardware
- Impact-resistant, UV stabilized white acrylic lensing

### SPECIFICATIONS

DELIVERED LUMENS	1994
WATTS	29.2
VOLTAGE	Universal 120V-277V, with integral transient 2.5kV surge protection (driver)
DIMMING	0-10, ELV
LIGHT DISTRIBUTION	Symmetric
MOUNTING OPTIONS	Wall
PERFORMANCE OPTIONS	In-Line Fuse / Surge Protector
CCT	3000K or 4000K
CRI	80+
COLOR BINNING	3 Step
BUG RATING	B0-U4-G2
DARK SKY	Non-Compliant
WET LISTED	IP65
GENERAL LISTING	ETL
CALIFORNIA TITLE 24	Can be used to comply with CEC 2019 Title 24 Part 6 for outdoor use. Registration with CEC Appliance Database not required.
START TEMP	-30°C
FIELD SERVICEABLE LED	Yes
CONSTRUCTION	Aluminum
HARDWARE	Stainless Steel
FINISH	Powder Coat
LED LIFETIME	L70; >60,000 Hours
WARRANTY*	5 Years
WEIGHT	5 lbs.

\* Visit [techlighting.com](http://techlighting.com) for specific warranty limitations and details.



COSMO 18  
shown in bronze



COSMO 18  
shown in charcoal

### ORDERING INFORMATION

PRODUCT	CRI/CCT	LENGTH	COLOR	FINISH	VOLTAGE	DISTRIBUTION	OPTIONS
7000WCOS	830 80 CRI, 3000K 840 80 CRI, 4000K	18 18"	Y WHITE ACRYLIC	Z BRONZE H CHARCOAL	UNV 120V-277V	S SYMMETRIC	NONE LF IN-LINE FUSE SP SURGE PROTECTION LFSP IN-LINE FUSE & SURGE PROTECTION