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## Architectural Review Board Staff Report

Meeting Date: December 14, 2023

From: Alyssa Ahner, Planner

Location: 42 Arnage Road

Description: TSG Chesterfield Airport Road, Lot B (Morganic Ventures, LLC) SDSP: A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for a 1-acre tract of land located north of Chesterfield Airport Rd., west of Jaguar Land Rover Way, and south of Arnage Rd.

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### PROPOSAL SUMMARY

Damien Ferrell Design Group, on behalf of MOrganic Ventures, LLC, has submitted a Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for a proposed retail sales building with drive-thru on undeveloped land located along Chesterfield Airport Road.



Figure 1: Subject Site

## HISTORY OF SUBJECT SITE

2017: Subdivision was rezoned from "NU" Non-Urban to "PC" Planned Commercial.

2020: Subdivision was rezoned to a new "PC" Planned Commercial District under governing Ordinance 3082 and a Site Development Section Plan for Lot A (Jaguar Land Rover) was approved.

2022: Subdivision was rezoned to a new "PC" Planned Commercial District under governing Ordinance 3206 to add "Car Wash" as a permitted use. A Site Development Section Plan followed shortly after for a proposed car wash on Lot D.

## STAFF ANALYSIS

### A. Site Relationships

The subject site is largely surrounded by automobile-related uses including dealerships and service-related businesses. There are two lots immediately east of the site that are currently undeveloped. The lot furthest east is expected to have a carwash under construction in the near future which was reviewed by ARB in 2022 and 2023.

### B. Circulation, Parking, & Access

The development is to be accessed by one shared drive entering from Arnage Road. This access will be shared by the proposed development and the lot immediately to the east. The entirety of the access drive would be required to be constructed with whichever lot develops first.

Sidewalk is required to be constructed along Arnage Road and Chesterfield Airport Road. In order to comply with ADA accessibility requirements, the sidewalk along Arnage Road will connect to the proposed building.

A drive-thru and bypass lane is proposed on the western side of the property and would travel counter-clockwise through the site. There is adequate stacking space per the Unified Development Code requirements.

### C. Topography

The majority of the site is flat, however, there is a minor grade change along the perimeter of the site to accommodate bioretention.

### D. Scale

The area surrounding the subject site is primarily comprised of one-story design buildings. For comparison, Lot A (Jaguar Land Rover) located northeast of the subject site, stands at a height of 26'4" with the rooftop mechanical unit screening extending six feet above that for a maximum height of roughly 32'. Lot B (Scrubbles Carwash) located to the east will be a maximum height of 28'6" at the rooftops of two tower components. The parapet for the remaining portions of the building not featuring the tower components would range from 15'4" (office/lobby area) to 18'6" (car wash bay).

The proposed retail sales building is depicted as 15'4" at the roof line with the parapet reaching 19'.



Figure 2: Height of nearby buildings in relation to subject site.

E. Materials & Design

The proposed retail sales building is predominantly brick masonry in a “Coal Matte” color. A second brick color in “Pewter” is incorporated to create horizontal stripes on each elevation.

A 6’ tall trash enclosure located in the northwest corner of the site is proposed in the same materials and color scheme as the building. All other building components such as downspouts, metal doors, and metal coping are intended to be a similar color to one of the two proposed brick colors. The full details and material ID may be found in the applicant’s packet.

The entrance of the building, which is proposed at the southeast corner of the site along Chesterfield Airport Road, will feature an aluminum storefront system and black metal canopy.



Figure 3: Primary proposed building materials.

F. Landscape Design & Screening

There are existing street trees along Arnage Road, however, additional street trees will be provided along Chesterfield Airport Road in the required 30’ wide landscape buffer. A mixture of shrubs and plantings are also proposed along Chesterfield Airport Road to meet the landscape buffer requirement. The interior of the site is landscaped throughout – including evergreen trees around the trash enclosure to provide year-round screening from Arnage Road.

In addition to the aesthetic plantings, the development will have a “C” shaped bioretention area extending around the north, west, and south perimeter. The proposed native plantings, as detailed on the attached planting plan, have been chosen to meet MSD water quality requirements.

Screening of any roof top mechanical equipment is to be accomplished via parapet. The roofline reaches 15’4” while the parapet continues to a maximum height of 19’. The parapet will adequately “screen the rooftop units from reasonable viewpoints” per the applicant.

G. Lighting

There will be four (4) light poles incorporated around the site (see Figure 4) and six (6) wall packs will be mounted on the building (see Figure 5). The fixtures and poles are the same ones utilized on Lot A (Jaguar Land Rover) and similar to the ones proposed to be used for Lot D (Scrubbles Carwash). All proposed lighting is code compliant.



Figure 4: Lighting Pole



Figure 5: Wall pack

## RENDERING



*Figure 6: Rendering of proposed building from Chesterfield Airport Road.*

## DEPARTMENT INPUT

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

Staff requests review of the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for TSG Chesterfield Airport Road, Lot B (MOrganic Ventures, LLC).

## MOTION

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

- 1) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for TSG Chesterfield Airport Road, Lot B (MOrganic Ventures, LLC) as presented, with a recommendation for approval (or denial) to the Planning Commission."
- 2) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for TSG Chesterfield Airport Road, Lot B (MOrganic Ventures, LLC) to the Planning Commission with a recommendation for approval with the following conditions..."

Attachments:

1. Architectural Review Packet Submittal

*Design and coordinate all facades with regard to color, types and numbers of materials, architectural form and detailing.*

- Design incorporates the same materials and details on all four sides of the building.
- Canopies have been incorporated to provide shading as well as visual interest and breakup of the façade.
- The entry is defined by storefront and covered with a canopy.

*Avoid linear repetitive streetscapes.*

- The street façade is broken up with the storefront and canopies as well as linear masonry detailing.

*Avoid stylized, "corporate" and/or franchise designs that use the building as advertising.*

- Materials are standard bricks and are not styled to a corporate theme.

*Provide architectural details particularly on facades at street level.*

- Storefront glazing and canopies are utilized to stylize the building. Soldier course is incorporated as well as building lighting to bring life to the building.

*Encourage art elements such as wall sculptures, murals, and artisan created details, etc., throughout a project.*

- No art elements or murals are planned at this time. The applicant is willing to explore ideas for art and murals.

*Encourage designs that enhance energy efficiency.*

- The building will be constructed to meet current energy codes in terms of insulative values as well as the mechanical equipment will meet current standards.

*Encourage the use of environmentally conscious building techniques and materials.*

- Structural masonry provides thermal mass and durability to the structure.
- Canopies provide shading to the glazing, particularly at the south façade.
- White membrane roofing reduces heat absorption contributing to heat island effect.

- Wall insulation to be mineral wool, a superior insulation to fiberglass. Roof insulation to be polyisocyanurate, a high R-value insulation.

*Provide entry recesses, plazas, roof overhangs, wall fins, projecting canopies or other similar features indicating the building's entry points while providing protection.*

- Canopies are incorporated that act as shading elements above windows and provide visual depth to the facade.

*Paint and trim temporary barriers/walls to complement the permanent construction excluding tree protection fencing.*

- There are no temporary barriers or walls planned.

*Screen rooftop equipment on all visible sides with materials that are an integral part of the architecture. Parapet walls or screen walls shall be treated as an integral part of the architecture and shall not visually weaken the design of the structure.*

- The parapet has been raised to screen the rooftop units from reasonable viewpoints.

*Materials And Colors.*

- The project utilizes brick masonry for finish materials as well structure. Bricks are of a natural color and are varied to break-up the overall wall expanse.
- The site will be paved in accordance to industry standard practices and will be compliant with all local ordinances.





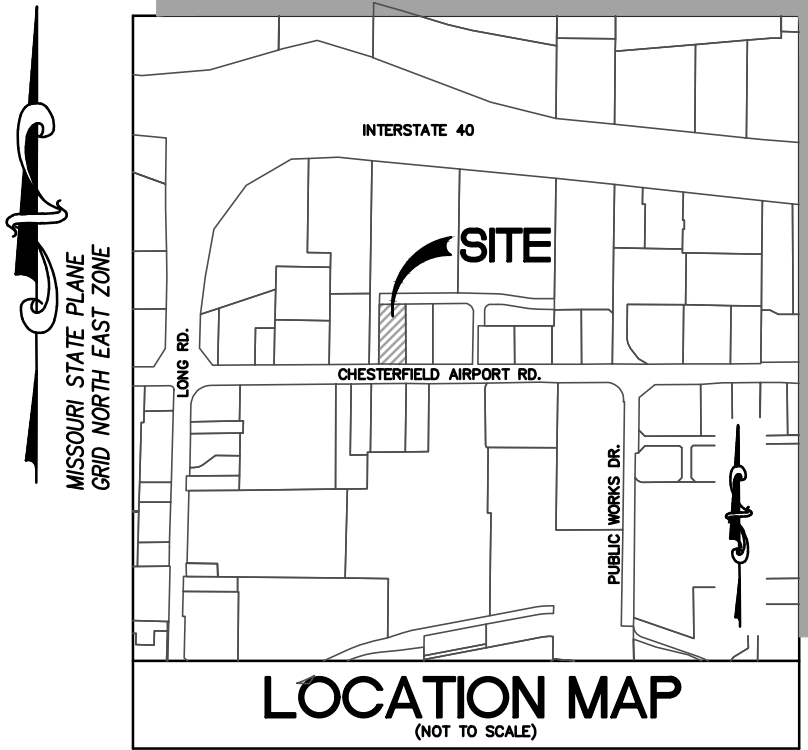




# SITE DEVELOPMENT SECTION PLAN

A TRACT OF LAND BEING LOT B OF TSG CHESTERFIELD AIRPORT ROAD AS RECORDED IN PLAT BOOK 368, PAGE 313 LOCATED IN TOWNSHIP 45 NORTH, RANGE 4 EAST OF THE 5TH PRINCIPAL MERIDIAN CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI

PERTINENT DATA	
OWNER:	TSG CHESTERFIELD AIRPORT ROAD LLC
ADDRESS:	42 ARNAGE ROAD CHESTERFIELD, MO 63005
EXISTING ZONING:	"PC" PLANNED COMMERCIAL (ORD. 3206)
LOCATOR NO.:	17U230386
FIRE DISTRICT:	MONARCH FIRE PROTECTION DISTRICT
SCHOOL DISTRICT:	ROCKWOOD
SEWER DISTRICT:	METROPOLITAN ST. LOUIS SEWER DIST.
WATER SHED:	MISSOURI RIVER
FEMA MAP:	29189C0165K
ELECTRIC COMPANY:	AMEREN UE
GAZ COMPANY:	SPIRE INC.
PHONE COMPANY:	AT&T
WATER COMPANY:	MISSOURI AMERICAN WATER COMPANY



- STRUCTURE SETBACKS:**
  - THIRTY (30) FEET FROM THE SOUTHERN BOUNDARY OF THIS PC DISTRICT THAT FRONTS ON CHESTERFIELD AIRPORT ROAD.
  - FIFTY-FIVE (55) FEET FROM THE NORTHERN BOUNDARY OF THIS PC DISTRICT THAT FRONTS ON I-64/US 40.
  - TEN (10) FEET FROM ALL OTHER BOUNDARY LINES WITHIN THIS PC DISTRICT.
- PARKING SETBACKS:**
  - THIRTY (30) FEET FROM THE SOUTHERN BOUNDARY OF THIS PC DISTRICT THAT FRONTS ON CHESTERFIELD AIRPORT ROAD.
  - FIFTY-FIVE (55) FEET FROM THE NORTHERN BOUNDARY OF THIS PC DISTRICT THAT FRONTS ON I-64/US 40.
  - ZERO (0) FEET FROM ALL OTHER BOUNDARY LINES WITHIN THIS PC DISTRICT.
- BUILDING REQUIREMENTS**
  - A MINIMUM OF THIRTY-FIVE (35%) OPENSACE FOR EACH LOT.
  - A MAXIMUM F.A.R. OF 0.55 FOR THIS PC DISTRICT

**HEIGHT:**  
1. MAX HEIGHT INCLUDING PARAPETS AND ROOFTOP EQUIPMENT OF ALL BUILDINGS SHALL NOT EXCEED FORTY-TWO (42) FEET.  
2. ALL BUILDINGS WITHIN THIS DEVELOPMENT SHALL BE LIMITED TO TWO (2) STORY CONSTRUCTION

**PARKING CALCULATIONS**  
REQUIRED PARKING [PER SECTION 405.04.04(D)]  
RETAIL SALES "COMMUNITY" = 4.5/1,000 S.F.  
MINIMUM MIN. REQUIRED: 4,405 S.F. x (4.5/1,000 S.F.) = 19.8 OR 20 SPACES  
MAXIMUM MAX. REQUIRED: 120% MIN. REQUIRED = 20 x 120% = 24 SPACES  
TOTAL PROVIDED: 30 SPACES

**OPENSACE CALCULATIONS**  
TOTAL SITE AREA: 43,561 S.F. or 100.0%  
BUILDING: 4,405 S.F. or 10.11%  
VEHICLE PAVEMENT: 18,266 S.F. or 41.93%  
PERCENT OPENSACE: 43,561-4,405-18,266 = 20,890 s.f. OR 47.86%

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

- GENERAL NOTES**
  - BOUNDARY AND TOPOGRAPHIC SURVEY BY STOCK & ASSOCIATES CONSULTING ENGINEERS, INC.
  - ALL UTILITIES SHOWN HAVE BEEN LOCATED BY THE ENGINEER FROM AVAILABLE RECORDS. THEIR LOCATION SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES, PRIOR TO CONSTRUCTION, TO HAVE EXISTING UTILITIES FIELD LOCATED.
  - NO GRADE SHALL EXCEED 3:1 SLOPE.
  - GRADING AND STORM WATER PER M.S.D., MODOT, ST. LOUIS COUNTY, THE CITY OF CHESTERFIELD AND THE MONARCH CHESTERFIELD LEVEE DISTRICT.
  - STORMWATER SHALL BE DISCHARGED AT ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS.
  - ALL UTILITIES WILL BE INSTALLED UNDERGROUND.
  - SITE DEVELOPMENT SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS AS OUTLINED IN THE GEOTECHNICAL REPORT AND ALL ITS SUPPLEMENTAL PROVISIONS AND ADDENDUMS.
  - SIGNAGE APPROVAL IS A SEPARATE PROCESS.
  - THE CONTROLLING REGULATORY FLOODPLAIN ELEVATION FOR THIS SITE IS THE 100-YEAR HIGH WATER ELEVATION OF 458.00 IN ACCORDANCE WITH THE CHESTERFIELD VALLEY STORMWATER MASTER PLAN.
  - ALL ABOVE GROUND UTILITY FACILITIES TALLER THAN TWO (2) FEET IN HEIGHT OR COVERING IN EXCESS OF FOUR (4) SQUARE FEET IN SIZE SHALL BE SCREENED FROM PUBLIC VIEW. IF SCREENING IS COMPLETED BY LANDSCAPE MATERIAL, A LANDSCAPE PLAN IDENTIFYING THE SIZE, LOCATION, AND SPECIES SHALL BE SUBMITTED AND APPROVED BY THE CITY PRIOR TO INSTALLATION OF ANY FACILITY.

- ST. LOUIS COUNTY STANDARD NOTES**
  - ALL PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED TO ST. LOUIS COUNTY STANDARDS.
  - NO SLOPES SHALL EXCEED 3 (HORIZONTAL) TO 1 (VERTICAL) WITHIN ST. LOUIS COUNTY RIGHT-OF-WAY UNLESS JUSTIFIED BY A GEOTECHNICAL REPORT, WHICH HAS BEEN APPROVED BY ST. LOUIS COUNTY, AND DESIGNED IN FULL COMPLIANCE WITH ROADSIDE SAFETY STANDARDS.
  - STORM WATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS.
  - ALL PROPOSED ACCESS TO ST. LOUIS COUNTY ROADS SHALL MEET MINIMUM ST. LOUIS COUNTY SIGHT DISTANCE REQUIREMENTS.
  - ALL GRADING AND DRAINAGE SHALL BE IN CONFORMANCE WITH ST. LOUIS COUNTY AND MSD STANDARDS.
  - ALL ABOVE-GROUND UTILITIES OR OTHER POTENTIAL OBSTRUCTIONS WITHIN THE ST. LOUIS COUNTY ROAD RIGHT-OF-WAY, SHALL HAVE A MINIMUM SETBACK, AS DIRECTED BY THE ST. LOUIS COUNTY DEPARTMENT OF TRANSPORTATION, AS PRESCRIBED IN SECTION 5.10 OF THE ST. LOUIS COUNTY DESIGN CRITERIA MANUAL "ROADSIDE DESIGN REQUIREMENTS"
  - ANY ENTITY THAT PERFORMS WORK ON ST. LOUIS COUNTY MAINTAINED PROPERTY SHALL PROVIDE THE COUNTY WITH A CERTIFICATE OF INSURANCE ENDORSING GENERAL LIABILITY COVERAGE (BODILY INJURY AND PROPERTY DAMAGE) IN THE AMOUNTS SPECIFIED AS THE LIMITS OF LIABILITY SET BY THE STATE FOR PUBLIC ENTITIES. SUCH CERTIFICATE SHALL INCLUDE ST. LOUIS COUNTY AS AN ADDITIONAL INSURED AND SHALL BE PROVIDED PRIOR TO THE ISSUANCE OF ANY PERMIT. CERTIFICATE SHALL PROVIDE FOR A 30 DAY POLICY CANCELLATION NOTICE TO ST. LOUIS COUNTY. UPON REQUEST, THE COUNTY WILL PROVIDE THE SPECIFIC AMOUNTS FOR BOTH PER PERSON AND PER OCCURRENCE LIMITS.
  - PRIOR TO "SPECIAL USE PERMIT" ISSUANCE BY THE ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC, A SPECIAL CASH ESCROW OR A SPECIAL ESCROW SUPPORTED BY AN IRREVOCABLE LETTER OF CREDIT, MAY BE REQUIRED TO BE ESTABLISHED WITH THE ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC TO GUARANTEE COMPLETION OF THE REQUIRED ROADWAY IMPROVEMENTS.
  - TRAFFIC GENERATION ASSESSMENT CONTRIBUTIONS FOR ROADWAY IMPROVEMENTS AND STORM WATER SHALL BE ASSESSED WITH EACH SITE DEVELOPMENT SECTION PLAN SUBMITTAL. WATER MAIN CONTRIBUTION SHALL BE ASSESSED AND PAID FOR THE ENTIRE DEVELOPMENT PRIOR TO THE ST. LOUIS COUNTY APPROVAL OF THE SITE DEVELOPMENT CONCEPT PLAN. TGA CONTRIBUTION FOR STORM WATER WILL BE DUE PRIOR TO BUILDING PERMITS ISSUED BY ST. LOUIS COUNTY DEPARTMENT OF PUBLIC WORKS.

MOrganic Ventures, LLC, the owner under contract of the property shown on this plan for and in consideration of being granted a permit to develop property under the provisions of Chapter \_\_\_\_\_ (Ordinance No. 3206, do hereby agree and declare that said property from the date of recording this plan shall be developed only as shown thereon, unless said plan is amended by the Planning Commission, or voided or vacated by order of ordinance of the City of Chesterfield Council.

MOrganic Ventures, LLC  
by: \_\_\_\_\_  
STATE OF MISSOURI )  
COUNTY OF ST. LOUIS ) ss.  
On this \_\_\_\_\_ day of \_\_\_\_\_, 2024, before me personally appeared \_\_\_\_\_, who being by me duly sworn, did say he is the \_\_\_\_\_ and that said instrument was signed on behalf of said limited liability company and that said \_\_\_\_\_ acknowledged said instrument to be the free act and deed of said limited liability company.

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

Notary Public  
Print Name

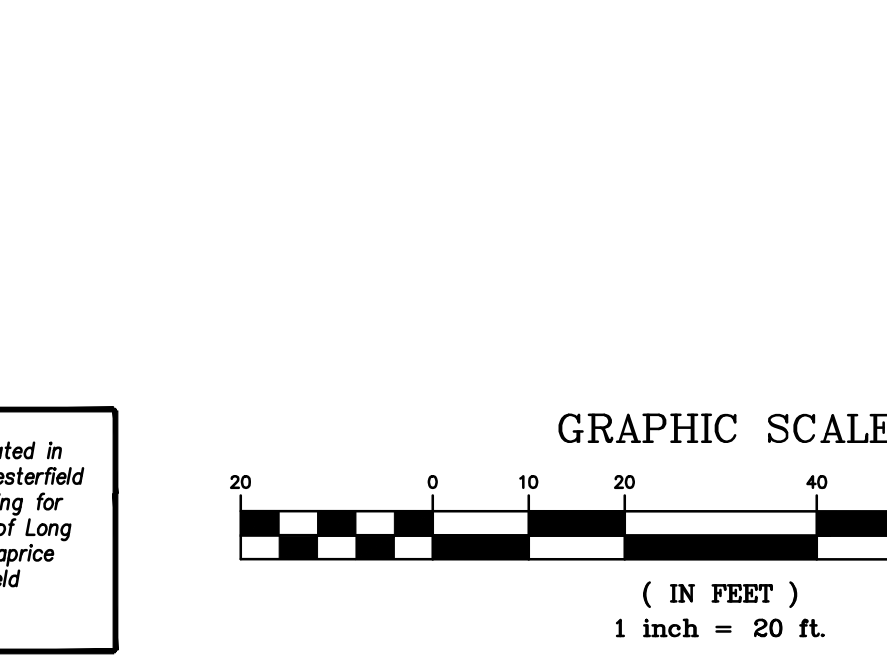
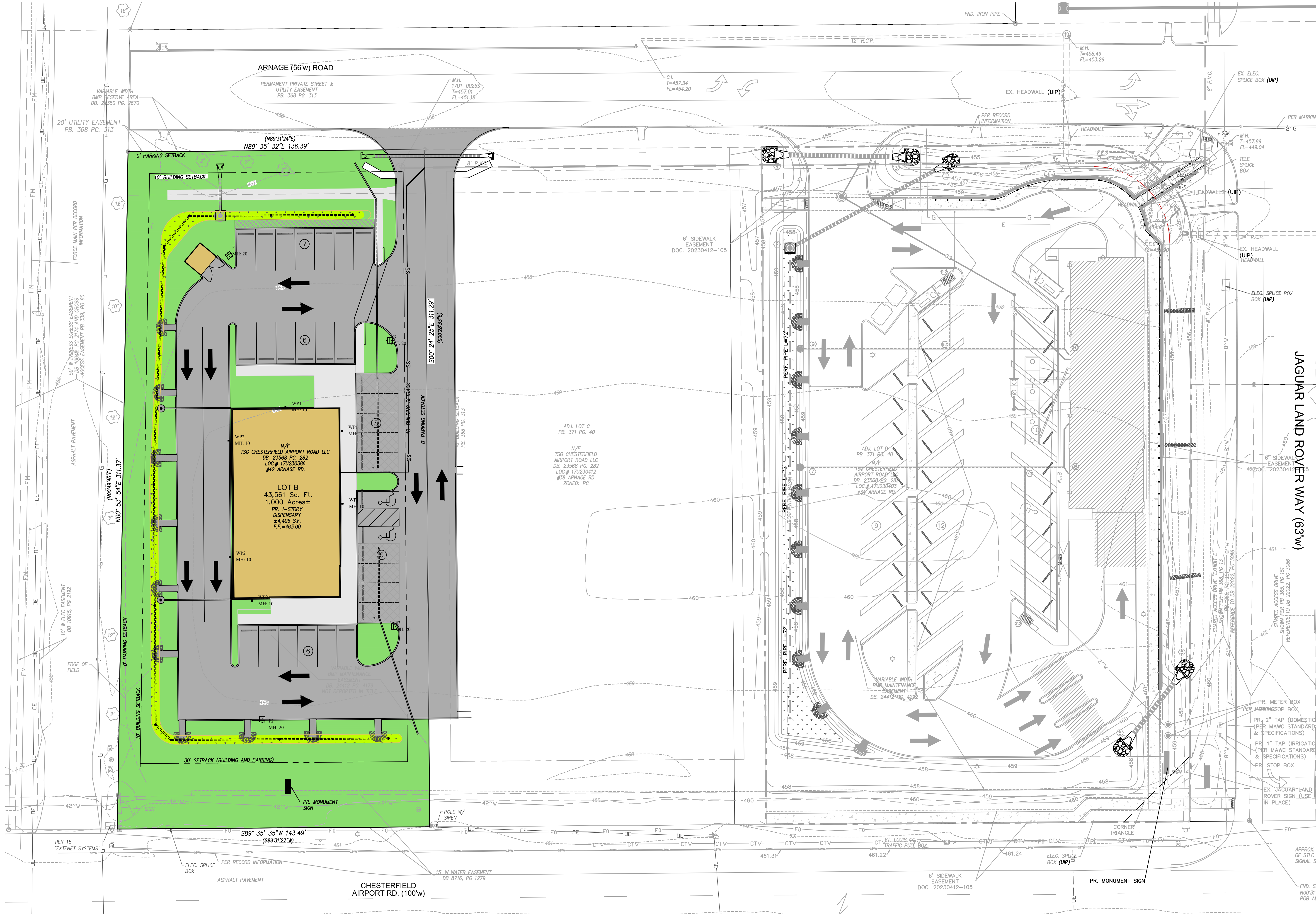
My commission expires: \_\_\_\_\_

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

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

**ST. LOUIS COUNTY BENCHMARK**  
BENCHMARK 1271 NGVD29 Elev = 460.06 FMS  
Standard DNR aluminum disk stamped SL-38 situated in a gravel area northwest of the intersection of Chesterfield Airport Road and Copice Drive, south of the parking for a retail strip center approximately 0.1 miles east of Long Road, roughly 58 feet west of the centerline of Copice Drive, 43 feet north of the centerline of Chesterfield Airport Road, and 69 feet east of a fire hydrant.  
[NAVD88/SLC2201a] Elev = 459.91

**PREPARED FOR:**  
MOrganic Ventures LLC  
4420 VARSITY DRIVE  
ANN ARBOR, MI 48108  
ATTN: MR. ANKUR RUNGTA



This Site Development Section Plan was approved by the City of Chesterfield Planning Commission and duly verified on the \_\_\_\_\_ day of \_\_\_\_\_, 2024, by the Chairperson of said Commission, authorizing the recording of this Site Development Section Plan pursuant to Chesterfield Ordinance No. 200, as attested to by the Director of Planning and Development Services and the City Clerk.

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

By: Vicki McGowd, City Clerk  
City of Chesterfield, Missouri

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

STOCK AND ASSOCIATES CONSULTING ENGINEERS INC.  
L.S. No. 222-0

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

PREPARED BY:  
**Stock & Associates**  
Consulting Engineers, Inc.  
257 Chesterfield Business Parkway  
St. Louis, MO 63005 PH: (636) 530-9000  
500-9300 FAX: (636) 530-9000  
e-mail: general@stockassoc.com  
Web: www.stockassoc.com

SECTION PLAN FOR:  
**42 ARNAGE ROAD**  
LOT B TSG CHESTERFIELD AIRPORT ROAD  
CHESTERFIELD, MISSOURI 63005

REVISIONS:	

DRAWN BY:	CHECKED BY:
K.S.G.	G.M.S.
DATE:	JOB NO.:
10/31/23	223-7450
M.S.G. #	BASE MAP #
17U2	17U2
S.L.C. HAT #	HAT SUFF. #
M.D.N.R. #	

SHEET TITLE:  
**COLOR PLAN**

SHEET NO.:  
**C-1.0**

MATERIAL LEGEND	
TAG	DESCRIPTION
1	Standard Brick 1 - Stacked Bond
2	Standard Brick 2 - Soldier Course
3	Aluminum Storefront System
4	Metal Canopy w/ Supports - Black
5	Drive-Thru Window w/ Secure Drawer
6	ADA Compliant Storefront Door
7	Metal Coping - Match Brick
8	Hollow Metal Door and Frame
9	LED Wall Pack
10	Leader Box and Downspout
11	Roof Top Mechanical Unit
12	Metal Panel Gate

**MATERIAL SAMPLES**



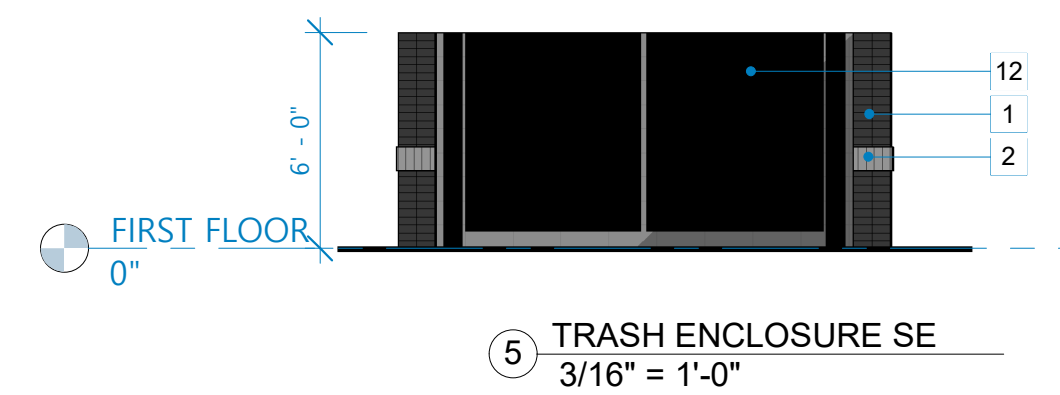
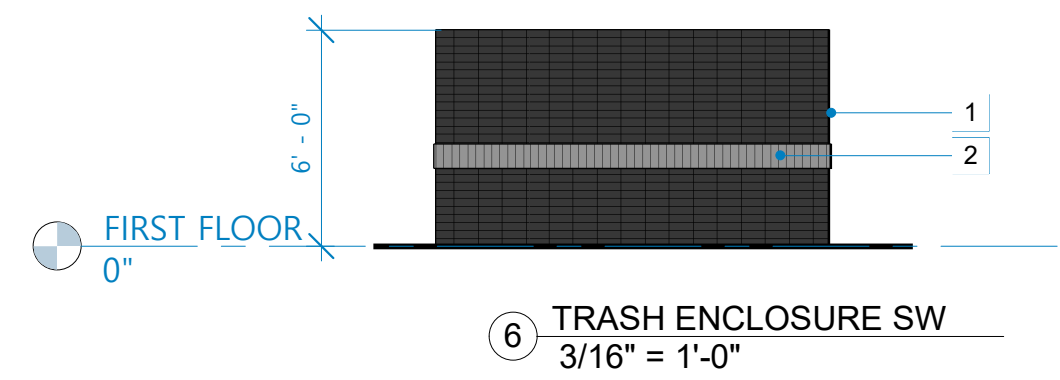
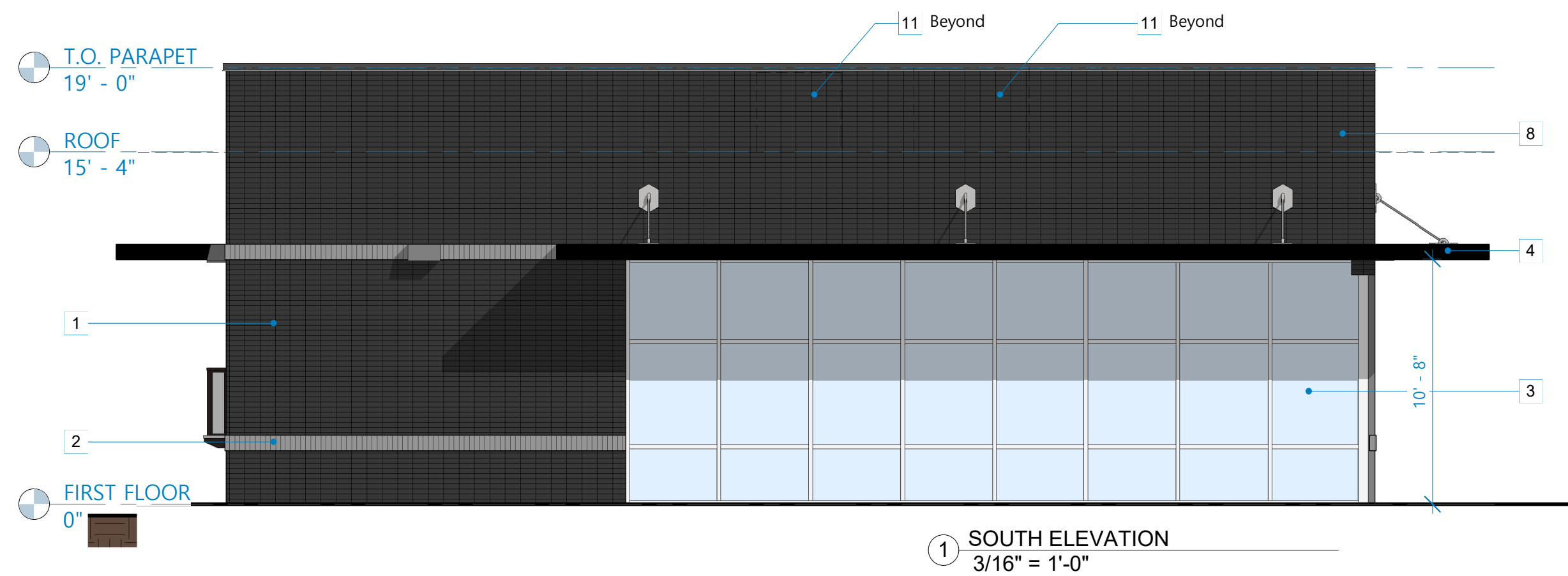
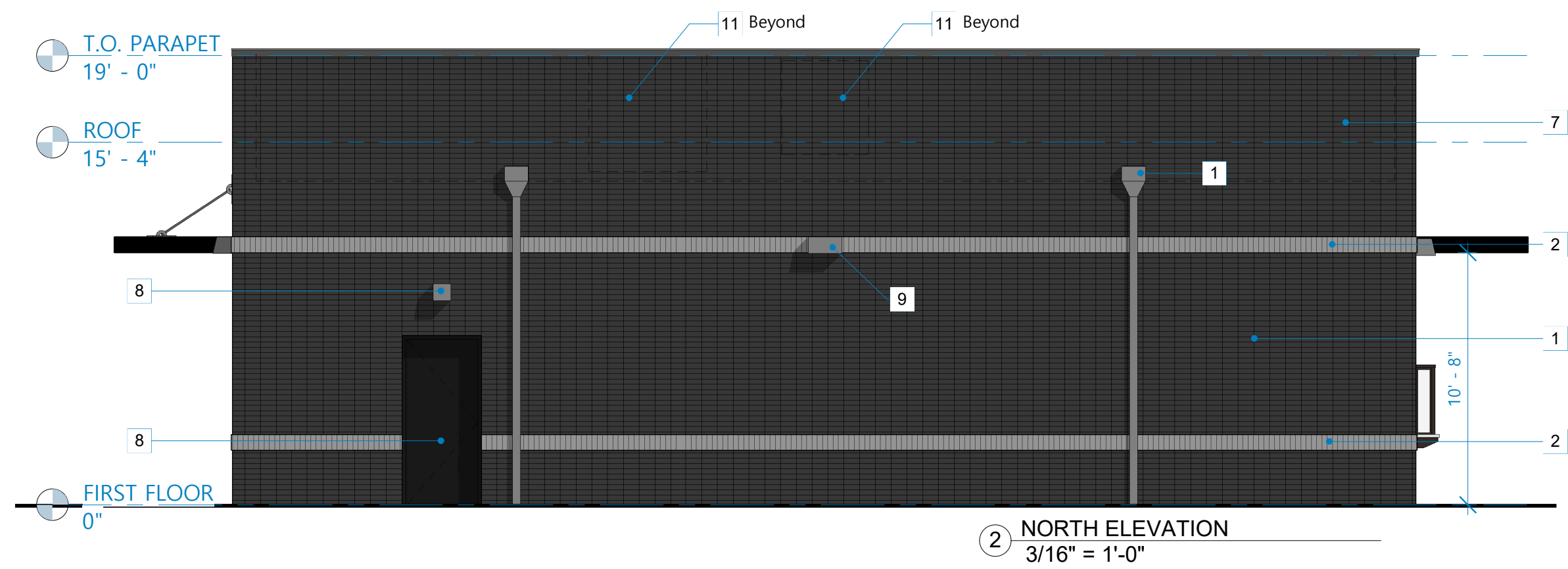
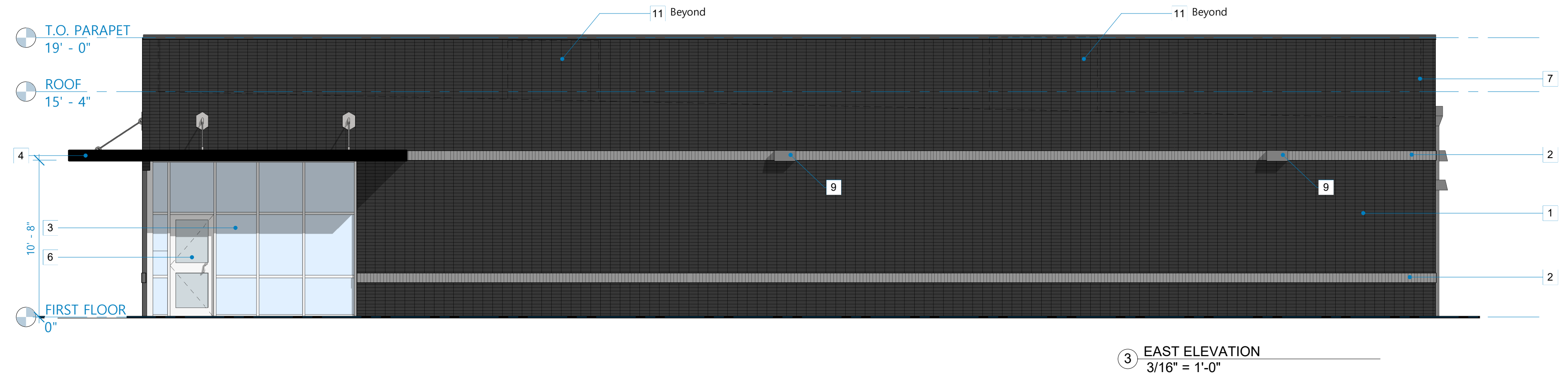
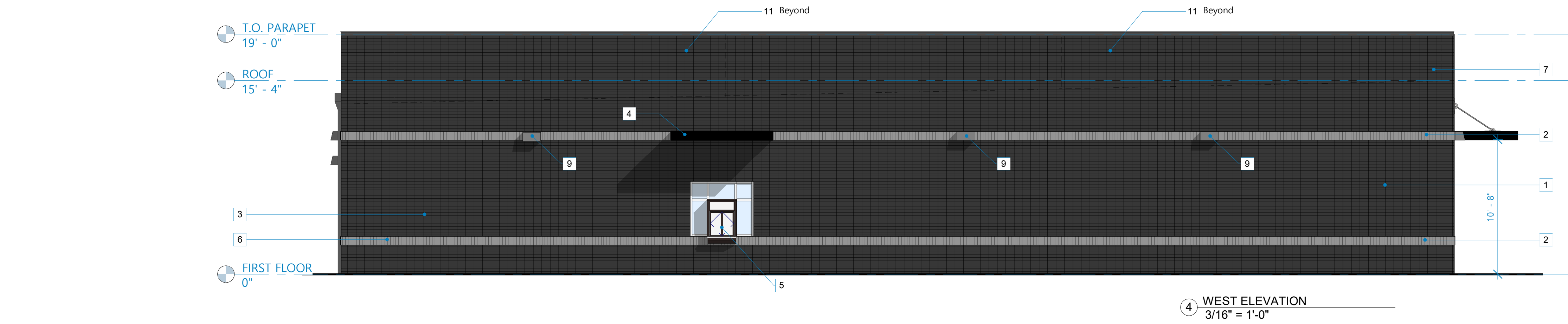
1 Standard Brick 1 - Stacked Bond  
Interstate Brick - Coal Matte or Approved Equal



2 Standard Brick 2 - Soldier Course  
Interstate Brick - Pewter or Approved Equal



3 Aluminum Storefront System  
Clear Anodized Aluminum



DAMIAN  
FARRELL  
DESIGN  
GROUP

359 METTY DRIVE, SUITE 4A  
ANN ARBOR, MI 48103  
tel: 734.998.1331

For Review	
CHESTERFIELD MO - PROVISIONING CENTER - 42 ARMAGE ROAD Chesterfield, MO	
DATE	DESCRIPTION
11/30/2023	ARB Submission REV
DESIGN	Designer
DRAWN	Author
PROJECT NO.	TBD

**ELEVATIONS**

**A4.0**



**42 ARNAGE ROAD, CHESTERFIELD MO**

ABBREVIATIONS		LEGEND	
ATO	ADJUST TO GRADE	EXISTING SANITARY SEWER	
B.C.	BACK OF CURB	EXISTING STORM SEWER	
C.O.	CLEARANCE	EXISTING TREE	
DB.	DEED BOOK	EXISTING BUILDING	
E.	ELECTRIC	EXISTING CONTOUR	
ELEV.	ELEVATION	EXISTING ELEVATION	
EX.	EXISTING	EXISTING UTILITIES	
F.C.	FACE OF CURB	FOUND 1/2" IRON PIPE	
FL.	FLOWLINE	FOUND CROSS	
FT.	FEET	FOUND STONE	
FND.	FOUND	FIRE HYDRANT	
G.	GAS	LIGHT STANDARD	
H.W.	HIGH WATER	BUSH	
LFB.	LOW FLOW BLOCKED	SIGN	
M.H.	MANHOLE	NOTES PARKING SPACES	
N/O	NOW OR FORMERLY	GUY WIRE	
PL.	PLAT BOOK	POWER POLE	
PG.	PAGE	WATER VALVE	
PR.	PROPOSED	WATER VALVE	
P.V.C.	POLYVINYL CHLORIDE PIPE	WATER VALVE	
R.C.P.	REINFORCED CONCRETE PIPE	WATER VALVE	
R/W	RIGHT-OF-WAY	WATER VALVE	
SQ.	SQUARE	WATER VALVE	
T.	TELEPHONE CABLE	WATER VALVE	
T.B.A.	TO BE ABANDONED	WATER VALVE	
T.B.R.	TO BE REMOVED	WATER VALVE	
T.B.R.&	TO BE REMOVED AND REPLACED	WATER VALVE	
TYP.	TYPICALLY	WATER VALVE	
U.I.P.	USE IN PLACE	WATER VALVE	
U.O.N.	UNLESS OTHERWISE NOTED	WATER VALVE	
V.C.P.	VITRIFIED CLAY PIPE	WATER VALVE	
W	WATER	WATER VALVE	
(86'W)	RIGHT-OF-WAY WIDTH	WATER VALVE	

**GENERAL NOTES**

- BOUNDARY AND TOPOGRAPHIC SURVEY BY STOCK & ASSOCIATES CONSULTING ENGINEERS, INC.
- ALL UTILITIES SHOWN HAVE BEEN LOCATED BY THE ENGINEER FROM AVAILABLE RECORDS. THEIR LOCATION SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES, PRIOR TO CONSTRUCTION, TO HAVE EXISTING UTILITIES FIELD LOCATED.
- NO GRADE SHALL EXCEED 3:1 SLOPE.
- GRADING AND STORM WATER PER M.S.D., MOODT, ST. LOUIS COUNTY, THE CITY OF CHESTERFIELD AND THE MONARCH CHESTERFIELD LEVEE DISTRICT.
- STORMWATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS.
- ALL UTILITIES WILL BE INSTALLED UNDERGROUND.
- SITE DEVELOPMENT SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS AS OUTLINED IN THE GEOTECHNICAL REPORT AND ALL ITS SUPPLEMENTAL PROVISIONS AND ADDENDUMS.
- SIGNAGE APPROVAL IS A SEPARATE PROCESS.
- THE CONTROLLING REGULATORY FLOODPLAIN ELEVATION FOR THIS SITE IS THE 100-YEAR HIGH WATER ELEVATION OF 458.00 IN ACCORDANCE WITH THE CHESTERFIELD VILLAGE STORMWATER MASTER PLAN.
- ALL ABOVE GROUND UTILITY FACILITIES TALLER THAN TWO (2) FEET IN HEIGHT OR COVERING IN EXCESS OF FOUR (4) SQUARE FEET IN SIZE SHALL BE SCREENED FROM PUBLIC VIEW. IF SCREENING IS COMPLETED BY LANDSCAPE MATERIAL, A LANDSCAPE PLAN IDENTIFYING THE SIZE, LOCATION, AND SPECIES SHALL BE SUBMITTED AND APPROVED BY THE CITY PRIOR TO INSTALLATION OF ANY FACILITY.

**ST. LOUIS COUNTY STANDARD NOTES**

- ALL PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED TO ST. LOUIS COUNTY STANDARDS.
- NO SLOPES SHALL EXCEED 3 (HORIZONTAL) TO 1 (VERTICAL) WITHIN ST. LOUIS COUNTY RIGHT-OF-WAY UNLESS JUSTIFIED BY A GEOTECHNICAL REPORT, WHICH HAS BEEN APPROVED BY ST. LOUIS COUNTY, AND DESIGNED IN FULL COMPLIANCE WITH ROADSIDE SAFETY STANDARDS.
- STORM WATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS.
- ALL PROPOSED ACCESS TO ST. LOUIS COUNTY ROADS SHALL MEET MINIMUM ST. LOUIS COUNTY SIGHT DISTANCE REQUIREMENTS.
- ALL GRADING AND DRAINAGE SHALL BE IN CONFORMANCE WITH ST. LOUIS COUNTY AND MSD STANDARDS.
- ALL ABOVE-GROUND UTILITIES OR OTHER POTENTIAL OBSTRUCTIONS WITHIN THE ST. LOUIS COUNTY ROAD RIGHT-OF-WAY, SHALL HAVE A MINIMUM SETBACK, AS DIRECTED BY THE ST. LOUIS COUNTY DEPARTMENT OF TRANSPORTATION, AS PRESCRIBED IN SECTION 5.10 OF THE ST. LOUIS COUNTY DESIGN CRITERIA MANUAL. "ROADSIDE DESIGN REQUIREMENTS".
- ANY ENTITY THAT PERFORMS WORK ON ST. LOUIS COUNTY MAINTAINED PROPERTY SHALL PROVIDE THE COUNTY WITH A CERTIFICATE OF INSURANCE EVIDENCING GENERAL LIABILITY COVERAGE (BODILY INJURY AND PROPERTY DAMAGE) IN THE AMOUNTS SPECIFIED AS THE LIMITS OF LIABILITY SET BY THE STATE FOR PUBLIC ENTITIES. SUCH CERTIFICATE SHALL INCLUDE ST. LOUIS COUNTY AS AN ADDITIONAL INSURED AND SHALL BE PROVIDED PRIOR TO THE ISSUANCE OF ANY PERMIT. CERTIFICATE SHALL PROVIDE FOR A 30 DAY POLICY CANCELLATION NOTICE TO ST. LOUIS COUNTY. UPON REQUEST, THE COUNTY WILL PROVIDE THE SPECIFIC AMOUNTS FOR BOTH PER PERSON AND PER OCCURRENCE LIMITS.
- PRIOR TO SPECIAL USE PERMIT ISSUANCE BY THE ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC, A SPECIAL CASH ESCROW OR A SPECIAL ESCROW SUPPORTED BY AN IRREVOCABLE LETTER OF CREDIT, MAY BE REQUIRED TO BE ESTABLISHED WITH THE ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC TO GUARANTEE COMPLETION OF THE REQUIRED ROADWAY IMPROVEMENTS.
- TRAFFIC GENERATION ASSESSMENT CONTRIBUTIONS FOR ROADWAY IMPROVEMENTS AND STORM WATER SHALL BE ASSESSED WITH EACH SITE DEVELOPMENT SECTION PLAN SUBMITTAL. WATER MAIN CONTRIBUTION SHALL BE ASSESSED AND PAID FOR THE ENTIRE DEVELOPMENT PRIOR TO THE ST. LOUIS COUNTY APPROVAL OF THE SITE DEVELOPMENT CONCEPT PLAN. TGA CONTRIBUTION FOR STORM WATER WILL BE DUE PRIOR TO BUILDING PERMITS ISSUED BY ST. LOUIS COUNTY DEPARTMENT OF PUBLIC WORKS.

Morganic Ventures, LLC, the owner under contract of the property shown on this plan for and in consideration of being granted a permit to develop property under the provisions of Chapter \_\_\_\_\_ of the City of Chesterfield.

Ordinance No. 3206, do hereby agree and declare that said property from the date of recording this plan shall be developed only as shown hereon, unless said plan is amended by the Planning Commission, or voided or vacated by order of ordinance of the City of Chesterfield Council.

Morganic Ventures, LLC  
 by: \_\_\_\_\_  
 STATE OF MISSOURI )  
 COUNTY OF ST. LOUIS )  
 On this \_\_\_\_\_ day of \_\_\_\_\_, 2024, before me personally appeared \_\_\_\_\_, who being by me duly sworn, did say he is the \_\_\_\_\_ and that said instrument was signed on behalf of said limited liability company, and that said \_\_\_\_\_ acknowledged said instrument to be the free act and deed of said limited liability company.  
 IN WITNESS WHEREOF, I have signed and sealed the foregoing the day and year first above written.  
 Notary Public  
 My commission expires: \_\_\_\_\_

**CONTRACTOR'S INSURANCE REQUIREMENTS**

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

**UTILITY NOTE:**

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

**STLCO BENCHMARK**  
 BENCHMARK 12171 N54129 Elev = 460.06 FUS  
 Standard 0.125" diameter aluminum disk stamped SL-38 affixed to a gray area northwest of the intersection of Chesterfield Airport Road and Caprice Drive, south of the parking lot for a retail strip center approximately 0.1 miles east of Long Road, roughly 58 feet west of the centerline of Caprice Drive, 43 feet north of the centerline of Chesterfield Airport Road, and 89 feet east of a fire hydrant.  
 [NAVD83(2011) Elev = 459.91]

**PREPARED FOR:**  
 Morganic Ventures LLC  
 4420 VARSITY DRIVE  
 ANN ARBOR, MI 48108  
 ATTN: MR. ANKUR RUNGTA

**STRUCTURE SETBACKS:**

- THIRTY (30) FEET FROM THE SOUTHERN BOUNDARY OF THIS PC DISTRICT THAT FRONTS ON CHESTERFIELD AIRPORT ROAD.
- FIFTY-FIVE (55) FEET FROM THE NORTHERN BOUNDARY OF THIS PC DISTRICT THAT FRONTS ON CHESTERFIELD AIRPORT ROAD.
- TEN (10) FEET FROM ALL OTHER BOUNDARY LINES WITHIN THIS PC DISTRICT.

**PARKING SETBACKS:**

- THIRTY (30) FEET FROM THE SOUTHERN BOUNDARY OF THIS PC DISTRICT THAT FRONTS ON CHESTERFIELD AIRPORT ROAD.
- FIFTY-FIVE (55) FEET FROM THE NORTHERN BOUNDARY OF THIS PC DISTRICT THAT FRONTS ON CHESTERFIELD AIRPORT ROAD.
- ZERO (0) FEET FROM ALL OTHER BOUNDARY LINES WITHIN THIS PC DISTRICT.

**BUILDING REQUIREMENTS**

- A MINIMUM OF THIRTY-FIVE (35%) OPENSACE FOR EACH LOT.
- A MAXIMUM F.A.R. OF 0.55 FOR THIS PC DISTRICT.

**SITE DEVELOPMENT SECTION PLAN**

A TRACT OF LAND BEING LOT B OF TSG CHESTERFIELD AIRPORT ROAD AS RECORDED IN PLAT BOOK 368, PAGE 313 LOCATED IN TOWNSHIP 45 NORTH, RANGE 4 EAST OF THE 5TH PRINCIPAL MERIDIAN  
 CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI

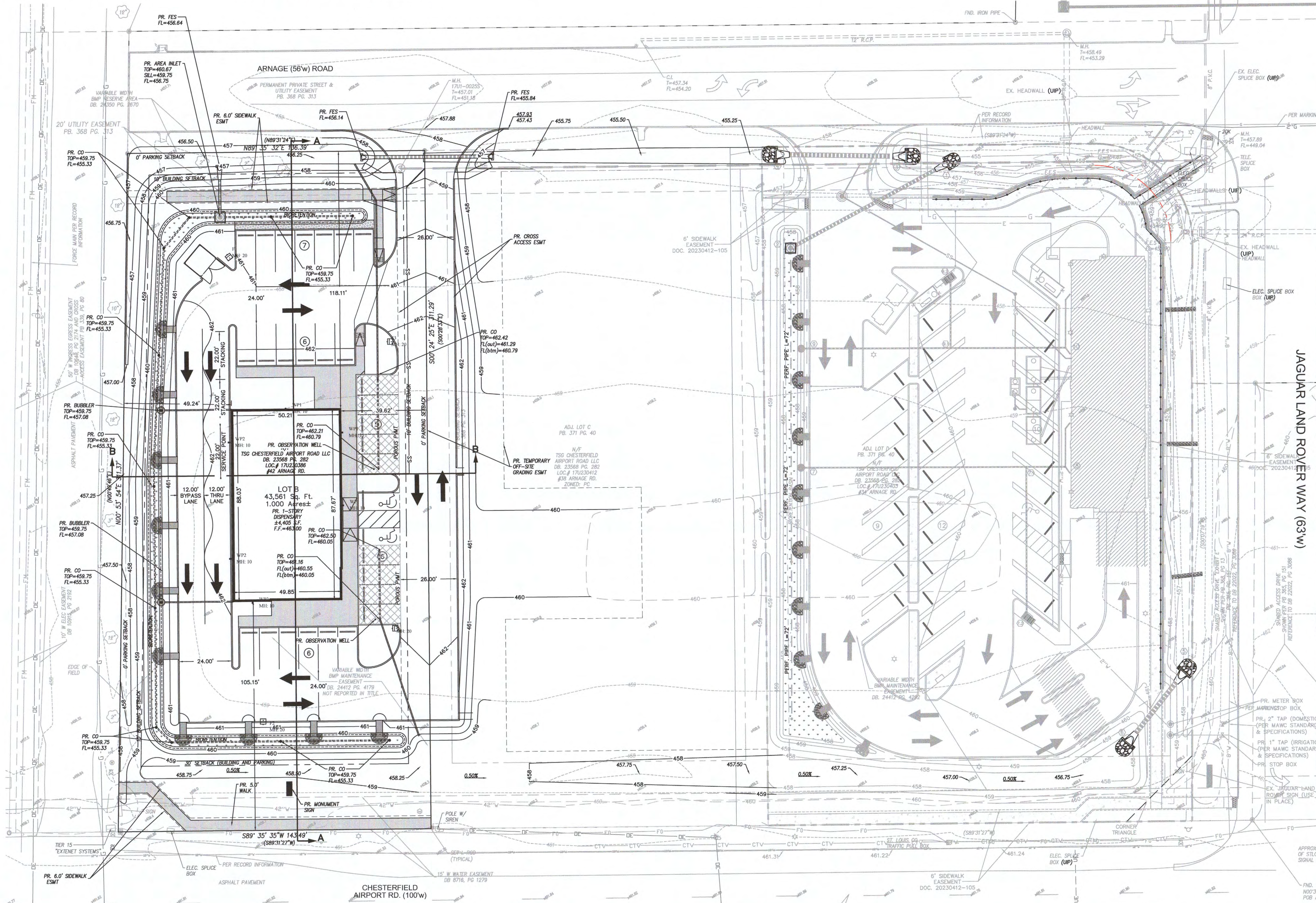
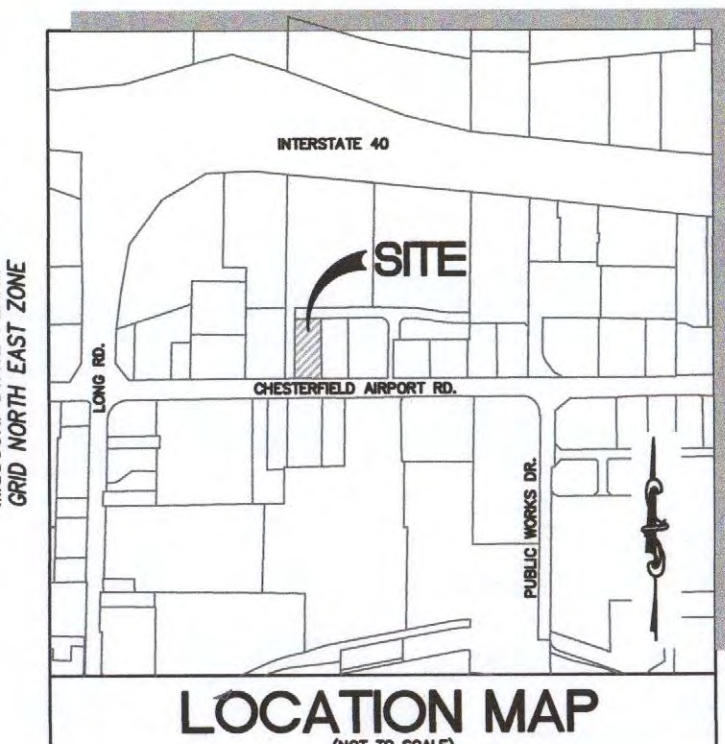
**HEIGHT:**  
 1. MAX HEIGHT INCLUDING PARAPETS AND ROOFTOP EQUIPMENT OF ALL BUILDINGS SHALL NOT EXCEED FORTY-TWO (42) FEET.  
 2. ALL BUILDINGS WITHIN THIS DEVELOPMENT SHALL BE LIMITED TO TWO (2) STORY CONSTRUCTION

**OPENSACE CALCULATIONS**  
 TOTAL SITE AREA: 43,561 S.F. or 100.0%  
 BUILDING: 4,405 S.F. or 10.11%  
 VEHICLE PAVEMENT: 18,266 S.F. or 41.93%  
 PERCENT OPENSACE: 43,561-4,405-18,266 = 20,890 s.f. OR 47.96%

**PARKING CALCULATIONS**  
 REQUIRED PARKING PER SECTION 405.04.04(0)(D):  
 RETAIL SALES "COMMUNITY" = 4.5/1,000 S.F.  
 MINIMUM MIN. REQUIRED: 4,405 S.F. x (4.5/1,000 S.F.) = 19.8 OR 20 SPACES  
 MAXIMUM MAX. REQUIRED: 120% MIN. REQUIRED = 20 x 120% = 24 SPACES  
 TOTAL PROVIDED: 30 SPACES

**PERTINENT DATA**

OWNER: TSG CHESTERFIELD AIRPORT ROAD LLC  
 ADDRESS: 42 ARNAGE ROAD  
 CHESTERFIELD, MO 63005  
 EXISTING ZONING: "PC" PLANNED COMMERCIAL (ORD. 3206)  
 LOCATION NO: 17U230386  
 FIRE DISTRICT: MONARCH FIRE PROTECTION DISTRICT  
 SCHOOL DISTRICT: ROCKWOOD  
 SEWER DISTRICT: METROPOLITAN ST. LOUIS SEWER DIST.  
 WATER SHED: MISSOURI RIVER  
 FEMA MAP: 29189C0165K  
 ELECTRIC COMPANY: AMEREN UE  
 GAS COMPANY: SPIRE INC.  
 PHONE COMPANY: AT&T  
 WATER COMPANY: MISSOURI AMERICAN WATER COMPANY



**GRAPHIC SCALE**  
 0 10 20 30 40 50  
 ( IN FEET )  
 1 inch = 20 ft.

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 [NAVD83(2011) Elev = 459.91]

**PREPARED FOR:**  
 Morganic Ventures LLC  
 4420 VARSITY DRIVE  
 ANN ARBOR, MI 48108  
 ATTN: MR. ANKUR RUNGTA

This Site Development Section Plan was approved by the City of Chesterfield Planning Commission and duly verified on the day of \_\_\_\_\_, 2024, by the Chairperson of said Commission, authorizing the recording of this Site Development Section Plan pursuant to Chesterfield Ordinance No. 200, as attested to by the Director of Planning and Development Services and the City Clerk.

By: Justin Wynn, AICP  
 Director of Planning  
 City of Chesterfield, Missouri

By: Vicki McGovern, City Clerk  
 City of Chesterfield, Missouri

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

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

Walter J. Pfeiffer, Missouri L.S. No. 20080000728

**REVISIONS:**  
 1. 2023-11-28 CITY SUBMITTAL

**STATE OF MISSOURI**  
 GEORGE M. STOCK, E-29114  
 CIVIL ENGINEER  
 CERTIFICATE OF AUTHORITY  
 NUMBER 00596

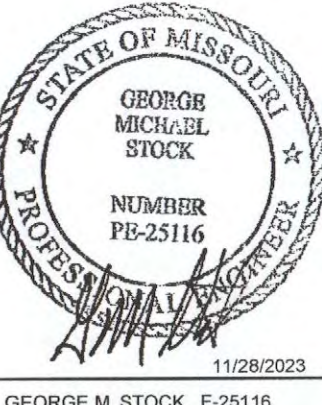
**REVISIONS:**  
 1. 2023-11-28 CITY SUBMITTAL

**STATE OF MISSOURI**  
 GEORGE M. STOCK, E-29114  
 CIVIL ENGINEER  
 CERTIFICATE OF AUTHORITY  
 NUMBER 00596

DRAWN BY: K.S.G. CHECKED BY: G.M.S.  
 DATE: 10/31/23 JOB NO: 223-7450  
 M.S.D. P.#: 17U230386 BASK MAP #:  
 S.L.C. MAP #:  
 M.O.N.#:  
 SHEET TITLE:  
 SITE DEVELOPMENT SECTION PLAN  
 SHEET NO.: SDSP-1.0

PREPARED BY:  
**Stock & Associates**  
 Consulting Engineers, Inc.  
 257 Chesterfield Business Parkway  
 St. Louis, MO 63015 PH: (636) 538-9100 FAX: (636) 538-9120  
 e-mail: general@stockandassoc.com  
 Web: www.stockandassoc.com

SITE DEVELOPMENT SECTION PLAN FOR:  
**42 ARNAGE ROAD**  
 LOT B TSG CHESTERFIELD AIRPORT ROAD  
 CHESTERFIELD, MISSOURI 63005

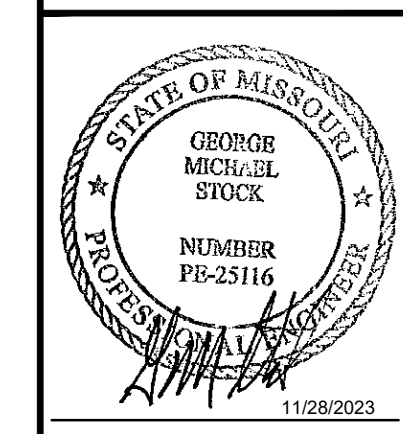


REVISIONS:  
 1. 2023-11-28 CITY SUBMITTAL

DRAWN BY: K.S.G. CHECKED BY: G.M.S.  
 DATE: 10/31/23 JOB NO: 223-7450  
 M.S.D. P.#: 17U230386 BASK MAP #:  
 S.L.C. MAP #:  
 M.O.N.#:  
 SHEET TITLE:  
 SITE DEVELOPMENT SECTION PLAN  
 SHEET NO.: SDSP-1.0

PREPARED BY:

SITE DEVELOPMENT SECTION PLAN FOR:  
**42 ARNAGE ROAD**  
LOT B TSG CHESTERFIELD AIRPORT ROAD  
CHESTERFIELD, MISSOURI 63005



REVISIONS:  
1. 2023-11-28 CITY SUBMITTAL

DRAWN BY: K.S.G.  
DATE: 10/1/23  
M.S.D. P.#  
S.L.C. MAT.#  
M.D.N.R.#

CHECKED BY: G.M.S.  
JOB NO: 223-7450  
BASE MAP # 17U2  
MAT SUP.#

SHEET TITLE:  
**SITE PHOTOMETRIC PLAN**

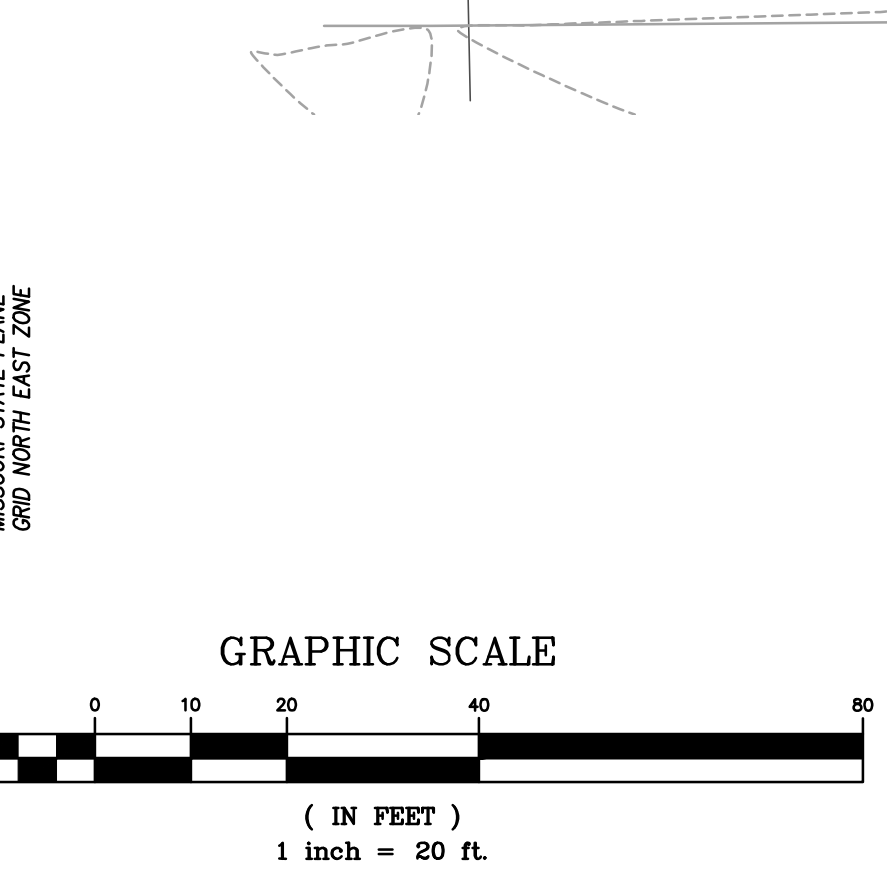
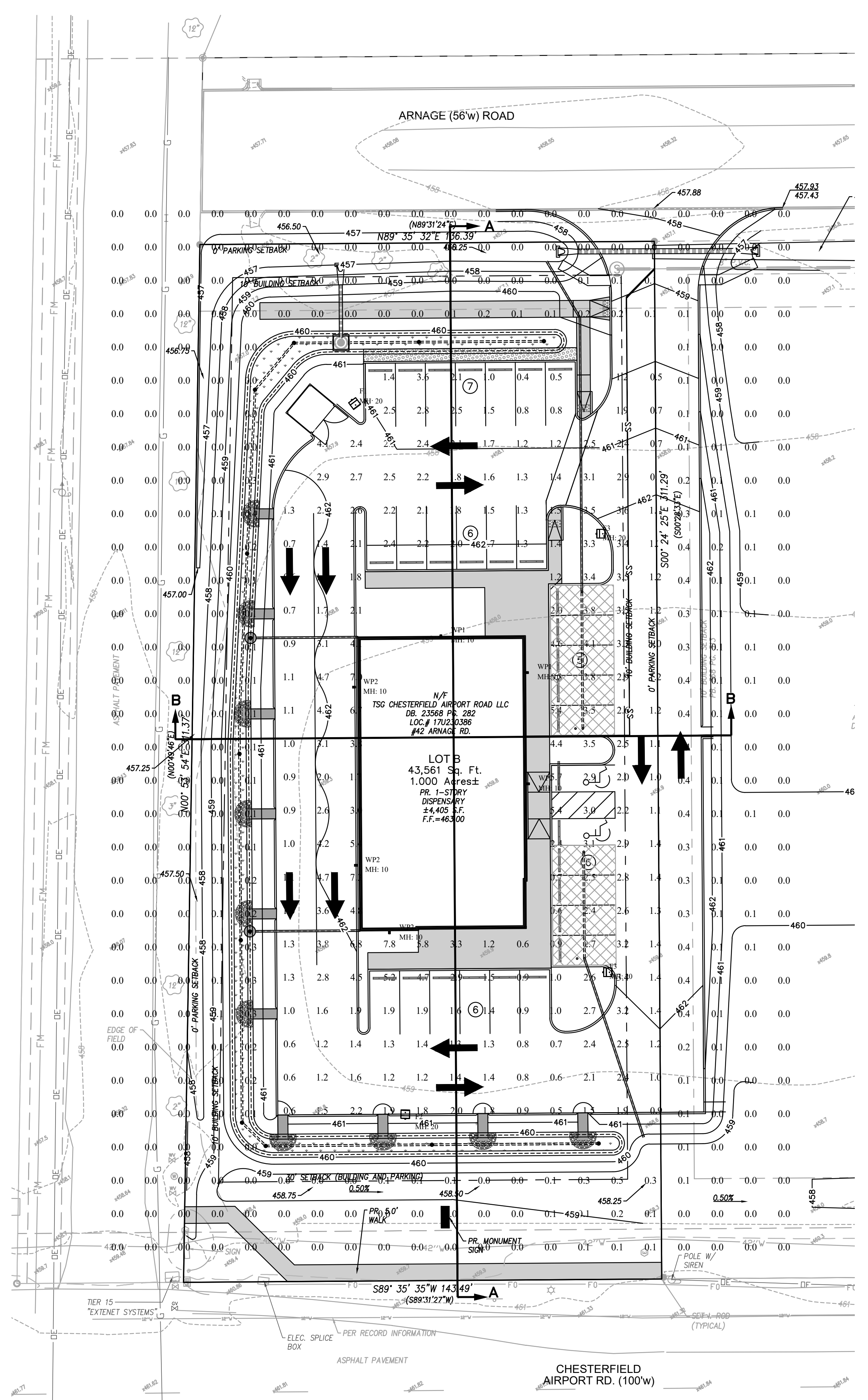
SHEET NO.:  
**SDSP-2.0**

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

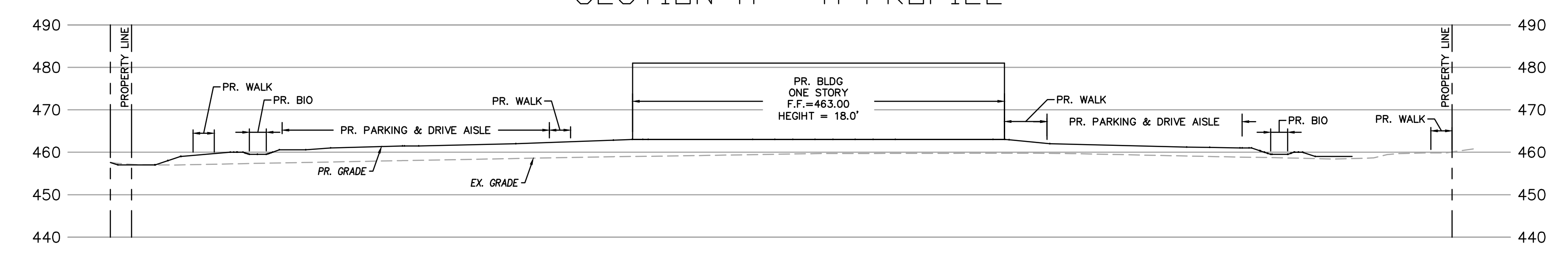
Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
SITE	Illuminance	Fc	2.23	7.8	0.4	5.6	19.5
SPILL LIGHT	Illuminance	Fc	0.05	0.5	0.0	N.A.	N.A.

Luminaire Schedule							
Symbol	Qty	Label	Arrangement	LLF	Lum. Watts	Total Watts	Description
	1	F1	Single	1.000	108	108	GALN-SA2C-740-U-T4FT-HSS
	1	F2	Single	1.000	65	65	GALN-SA1D-740-U-T4FT-HSS
	2	F3	Single	1.000	57	114	GALN-SA1C-740-U-T1
	3	WP1	Single	1.000	34	102	GWC-SA1A-740-U-T4FT
	3	WP2	Single	1.000	34	102	GWC-SA1A-740-U-T3

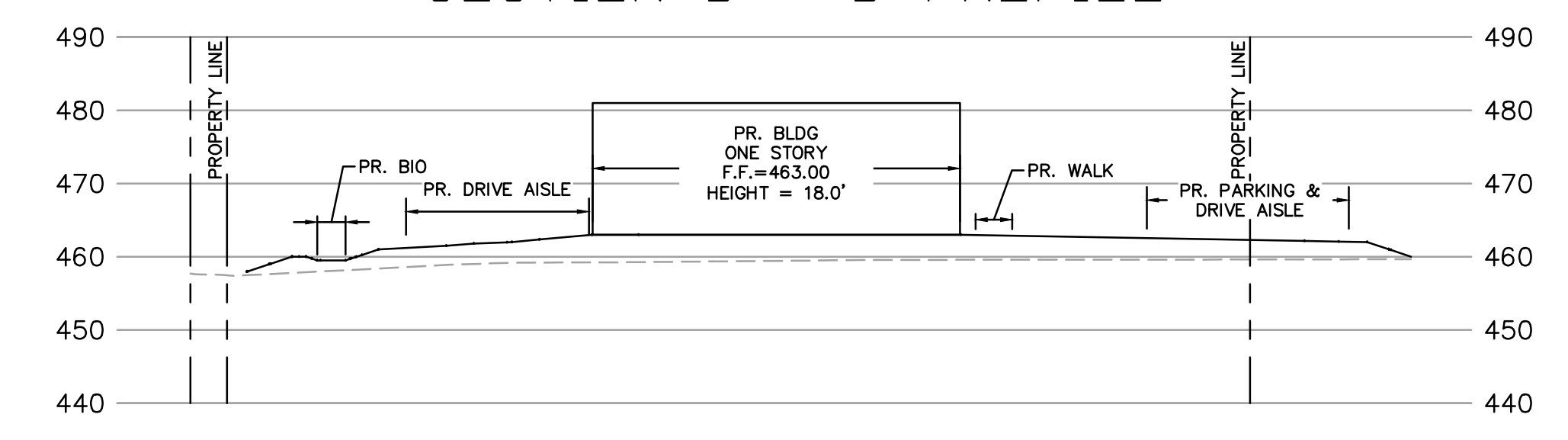
DESIGN IS BASED ON CURRENT INFORMATION PROVIDED AT THE TIME OF REQUEST. ANY CHANGES IN MOUNTING HEIGHT OR LOCATION, LAMP WATTAGE, LAMP TYPE, AND EXISTING FIELD CONDITIONS, THAT EFFECT ANY OF THE PREVIOUSLY MENTIONED, WILL VOID CURRENT LAYOUT AND REQUIRE A CHANGE REQUEST AND RECALCULATION.



SECTION A - A PROFILE

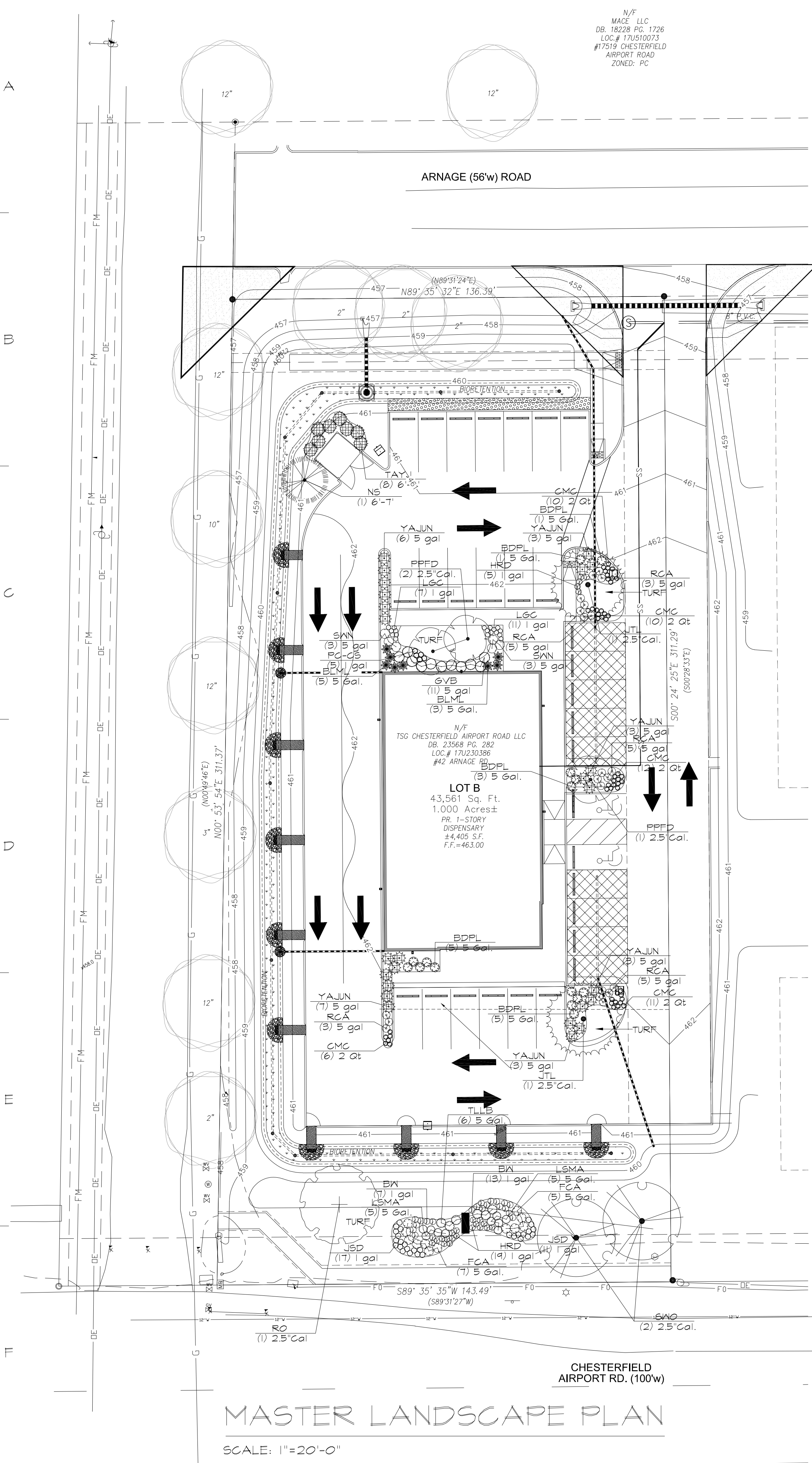


SECTION B - B PROFILE



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

REVISIONS	BY
11/27/2023	RVM



N/F  
MACE LLC  
DB: 18228 PG. 1726  
LOC # 170310073  
#17519 CHESTERFIELD AIRPORT ROAD  
ZONED: PC

**PLANT SCHEDULE**

TREES	QTY	COMMON / BOTANICAL NAME	SIZE
RO	2	RED OAK / QUERCUS RUBRA	1.5' GAL
SWO	2	SWAMP WHITE OAK / QUERCUS BICOLOR	2.5' GAL
EVERGREEN TREES			
NS	1	NORWAY SPRUCE / PICEA ABIES	6'-7'
TAYJ	5	TAYLOR JUNIPER / JUNIPERUS VIRGINIANA 'TAYLOR'	6'-7'
FLOWERING TREES			
JTL	2	JAPANESE TREE LILAC / SYRINGA RETICULATA 'IVORY SILK'	1.5' GAL
PFFD	3	PRAIRIE PINK FLOWERING DOGWOOD / CORNUS FLORIDA 'PRAIRIE PINK'	2.5' GAL
SHRUBS			
BLML	6	BLOOMERANG DWARF PURPLE LILAC / SYRINGA X 'SMSUBPT' TM	1.5 GAL
BDPL	15	BLOOMERANG DWARF PURPLE LILAC / SYRINGA X 'SMNLRPU' TM	1.5 GAL
YAJUN	25	COMPACT YOUNGSTOWN ANDORRA JUNIPER / JUNIPERUS HORIZONTALIS 'YOUNGSTOWN'	1.5 GAL
FCA	12	FIRE CHIEF ARBORVITAE / THUJA OCCIDENTALIS 'CONGARE'	1.5 GAL
GVB	11	GREEN VELVET BOXWOOD / BUXUS 'GREEN VELVET'	1.5 GAL
LSMA	10	LOW SCAPE MOUND CHOKEBERRY / ARONIA MELANOCARPA 'LOW SCAPE MOUND'	1.5 GAL
RCA	31	ROSE CREEK ABELIA / ABELIA X GRANDIFLORA 'ROSE CREEK'	1.5 GAL
SN	6	SUMMER NINE NINEBARK / PHYSCARPUS OPULIFOLIOLUS 'SUMMER NINE'	1.5 GAL
TLB	6	TITAN LITTLELEAF BOXWOOD / BUXUS SINICA 'TITAN'	1.5 GAL
FORBS			
OBS	37	OZARK BLUE STAR / AMSONIA ILLUSTRIS	2 QT @ 30" OC
PFRM	10	PARTY FAVOR ROSE MALLOW / HIBISCUS LASIOCARPUS	1 GAL @ 30" OC
SMN	123	SWAMP MILKWEED / ASCLEPIAS INCARNATA	2 QT @ 24" OC
ANNUALS/PERENNIALS			
BN	20	BUTTERFLY MILKWEED / ASCLEPIAS TUBEROSA	1 GAL
CMC	44	CATMINT / NEPETA X 'CAT'S MEOW'	2 QT
PC-CS	15	CHEYENNE SPIRIT CONEFLOWER / ECHINACEA PURPUREA 'CHEYENNE SPIRIT'	1 GAL
HRD	24	HAPPY RETURNS DAYLILY / HEIMEROCALLIS HYBRID 'HAPPY RETURNS'	1 GAL
JSD	28	JAVA SEA DAYLILY / HEIMEROCALLIS X 'JAVA SEA'	1 GAL
LGC	18	LITTLE GOLDSTAR CONEFLOWER / RUDBECKIA FULGIDA SULLIVANTII 'LITTLE GOLDSTAR'	1 GAL
NATIVE GRASSES			
	86	BROWN FOX SEDGE / CAREX VULPINOIDEA	PLUG AT 18" OC
	103	GREAT GREEN BULRUSH / SCIRPUS ATROVIRENS	PLUG AT 18" OC
	32	MORNING STAR SEDGE / CAREX GRAYI	PLUG AT 18" OC
	66	PALM SEDGE / CAREX MUSKINGUMENSIS	PLUG AT 18" OC

**LANDSCAPE REQUIREMENTS:**

ALL STREET TREES SHALL BE MIN. 2.5' CALIPER WITH A MAXIMUM OF 20% OF TREES OF ONE SPECIES THROUGHOUT.

**SITE SPACES:**  
TOTAL SITE: 49,561 SF  
BUILDING AREA: 9,975 SF or 9.13%  
PARKING / DRIVE AREAS: 19,266 SF or 41.93%  
OPEN SPACE = 21,320 SF TOTAL or 48.94% OF SITE (35% MINIMUM REQUIRED)

**PLEASE NOTE:**

- ALL LANDSCAPE AREAS & ISLANDS SHALL BE PROVIDED WITH A MECHANICAL IN-GROUND IRRIGATION SYSTEM (BY OTHERS), COORDINATE LANDSCAPING WITH IRRIGATION CONTRACTOR.
- ALL PLANTING BEDS TO BE EDGED W/ SPADE-CUT EDGE UNLESS OTHERWISE NOTED.
- ADJUST TREE LOCATIONS FOR LIGHT STANDARDS AND UNDERGROUND UTILITIES.
- NOTE: NO PARKING SPACE SHALL BE FURTHER THAN FIFTY (50) FEET FROM A TREE.
- NO TREES OR OTHER OBSTRUCTIONS SHALL BE LOCATED WITHIN 6 FEET OF FIRE HYDRANTS.
- ALL SHRUBS/PERENNIALS WITHIN 35' SIGHT TRIANGLE ZONES TO BE MAINTAINED AT A MAXIMUM HEIGHT OF TWENTY FOUR INCHES (2 FEET); ALL TREES TO BE MAINTAINED WITH A CLEAR HEIGHT FROM GRADE OF TEN (10) FEET.

**STREET TREES:** 1 per 50 LF FRONTAGE

- 49.44 LF FRONTAGE @ CHESTERFIELD AIRPORT ROAD REQUIRING 3 TREES @ 2.5' CALIPER, THREE (3) TREES ARE PROPOSED.
- 36.39 LF FRONTAGE @ ARNAGE ROAD REQUIRING 3 TREES @ 2.5' CALIPER, THREE (3) TREES ARE PROPOSED.

**TOTAL TREES:** 21 TOTAL --- 0 FAST GROWTH (0%) and 21 SLOW-MEDIUM GROWTH (100%)

- 6 DECIDUOUS SHADE TREES (17%)
- 9 EVERGREEN TREES (50%)
- 6 ORNAMENTAL TREES (33%)

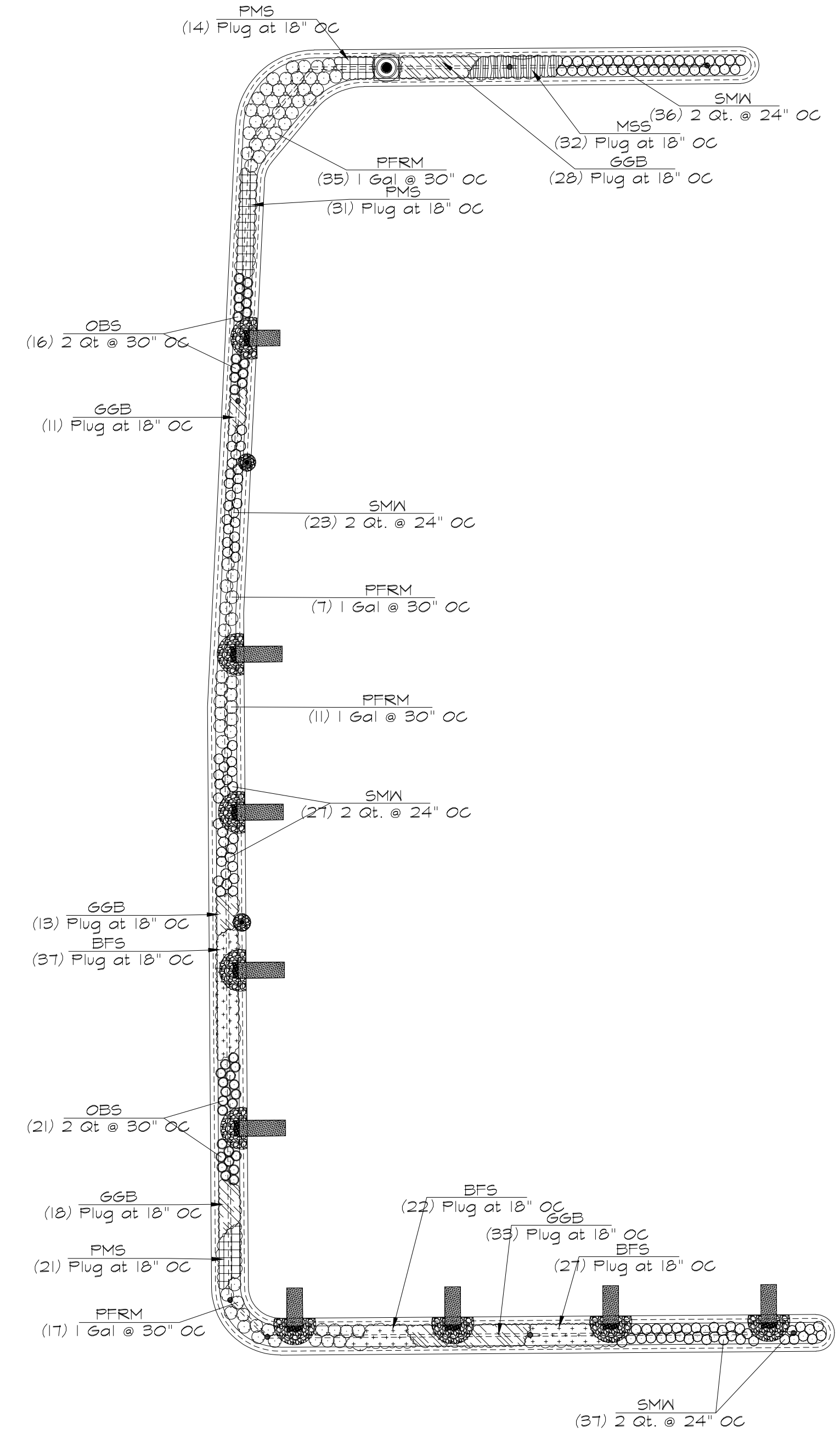
**PLANT SCHEDULE - BIO-RETENTION**

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OBS	37	OZARK BLUE STAR / AMSONIA ILLUSTRIS	2 QT @ 30" OC
PFRM	70	PARTY FAVOR ROSE MALLOW / HIBISCUS LASIOCARPUS	1 GAL @ 30" OC
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**PLANTING, WATER and MULCH REQUIREMENTS**

WATER AVAILABILITY	REQUIRED PLANTING PERIOD	MINIMUM CONTAINER SIZE	WATER REQUIREMENT FIRST 3 WEEKS	WATER REQUIREMENT AFTER 3 WEEKS	MAXIMUM MULCH DEPTH
NO AVAILABILITY TO WATER AFTER	LATE FEB. - APRIL ONLY	2.25'x3.75' OR LARGER	WATER EACH PLUG IMMEDIATELY		1.5" FOR PLUGS
MANUAL WATERING WITH STANDARD SPRINKLER	LATE FEB. - EARLY JUNE or SEPT. - OCTOBER	4.5'x5' OR LARGER	1" (60 MIN) EVERY 4 DAYS	1" (60 MIN) EVERY 7 DAYS UNTIL PLANTS ESTABLISHED	1.5" FOR PLUGS 2.5" FOR QUARTS
AUTOMATIC IRRIGATION (WATER MORE FREQUENTLY THAN NORMAL DURING FIRST TWO MONTHS AFTER PLANTING)	LATE FEB. - EARLY OCTOBER	2.25'x3.75' OR LARGER	1" (60 MIN) EVERY 4 DAYS IN SPRING AND FALL	1" (60 MIN) EVERY 7 DAYS UNTIL PLANTS ESTABLISHED	1.5" FOR PLUGS 2.5" FOR QUARTS



**Landscaping TECHNOLOGIES**

611 Jacobs Creek Drive  
St. Louis, MO 63105  
Phone: (314) 921-2800  
Fax: (314) 921-2801  
www.landscapingtechnologies.com

REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT #000019  
DATE: 11-27-2023

PLANTING PLAN FOR THE PROPOSED  
**42 Arnage Road**  
42 ARNAGE ROAD CHESTERFIELD, MO 63005

DRAWN  
R. MARDIS

CHECKED  
RMM/EL

DATE  
10/3/2023

SCALE  
1"=20'-0"

JOB NO.  
2023-170

SHEET  
**L-1**

OF TWO SHEETS

# LANDSCAPE GUIDELINE SPECS:

## GENERAL:

- Base map information is accurate as of the date of drawing printed in this package.
- It shall be the landscape contractor's responsibility to:
  - Verify all existing and proposed features shown on the drawings prior to commencement of work.
  - Report all discrepancies found with regard to existing conditions or proposed design to the landscape architect immediately for a decision.
  - Stake the locations of all proposed plant material and obtain the approval of the owner's representative or landscape architect ten (10) days prior to installation.
- The contractor shall be in compliance with all codes applicable to this work.
- Clean all planting beds of debris, rock, building material, etc. prior to adding / spreading topsoil or mulch.
- All annual and/or perennial beds are to be rototilled to a depth of 12" and amended with peat moss or organic material prior to planting. All grass and/or weeds shall be killed / removed from new planting beds of any kind.
- Remove all debris and rock in parking lot islands shall be removed / disposed and new topsoil provided to a depth of 6" with a berm 4" higher than the adjacent curbing.
- All natural vegetation shall be maintained where it does not interfere with construction or the permanent plan of operation. Every effort possible shall be made to protect existing structures or vegetation from damage due to equipment usage. Contractor shall at all times protect all materials and work against injury to public.
- The landscape contractor shall be responsible for any coordination and sequencing with other site related work being performed by other contractors. Any damage to the existing improvements shall be the responsibility of the contractor. It shall be the responsibility of the contractor to restore all areas of the site which are disturbed by said contractor prior to additional drawings for further coordination of work to be done.
- Underground facilities, structures and utilities must be considered approximate only. There may be others not presently known or shown. It shall be the landscape contractor's responsibility to determine or verify the existence of and exact location of the above (call utility location services in municipality).
- Plant material are to be planted in the same relationship to grade as was grown in nursery conditions. All planting beds shall be cultivated to 6" depth minimum and graded smooth immediately before planting of plants. Plant groundcover to within 12" of trunk of trees or shrubs planted within the area.
- Plant material shall be typical in shape and form for species specified. Plants planted in groupings and masses shall also be matched. Container grown plant material shall not be root-bound and balled-and-burlapped material shall have root balls as dictated by American Standards for Nursery Stock.
- Items shown on this drawing take precedence over the material list. It shall be the landscape contractor's responsibility to verify all quantities and conditions prior to implementation of this plan. No substitutions or size of plant materials will be accepted without written approval from the landscape architect.
- Provide single-stem trees unless otherwise noted in plant schedule.
- All plant material shall comply with the recommendations and requirements of ANSI Z602.1 "American Standards for Nursery Stock".
- It shall be the contractor's responsibility to provide for inspection of the plant material by the Landscape Architect (or Owner's Representative) prior to acceptance. Inspections may take place before, during or after installation. Plants not conforming exactly to the plant list will not be accepted and shall be replaced at the landscape contractor's expense.
- All bids are to have unit prices listed. The Owner has the option to delete any portion of the contract prior to signing the contract or beginning work. This will be a unit price contract; quotes shall be valid for 12 months.
- Should auger equipment be utilized in excavating any plant pits, vertical sides of plant pits shall be thoroughly scarified to avoid creation of "polished side walls" prior to plant material installation.
- All excess topsoil, rocks, debris and/or tainted soils shall be removed by the general contractor prior to point project is turned over to the landscape contractor to commence landscape installation.
- Keep all plant material (except turf) a minimum of 36' clear of fire hydrants.
- All tags, nursery stakes, labels, etc. shall be removed by the landscape contractor at completion of all landscape installation.
- Landscape contractor shall be in compliance with all federal, state and local laws / regulations relating to insect infestation and/or plant diseases.
- All substitutions of plant material shall be submitted to landscape architect for approval.
- Tree protection fencing is to be installed prior to any grading operations and inspected daily / maintained in place until completion of the project.
- No parking, storage of materials or any other construction activities are to occur within tree protection areas.

## PRUNING:

- Lightly prune trees at time of planting. Prune only the crossover limbs, intermingled leaders and/or any broken branches. Some interior limbs and lateral branches may be pruned. However, do not remove the terminal buds of branches that extend to the edge of the crown.
- All pruning shall comply with ANSI A300 standards.

## INSURANCE:

- The landscape contractor shall submit certificates of insurance for workman's compensation and general liability.

## MULCH:

- All mulch to be shredded oak bark mulch at 3" depth (after compaction) unless otherwise noted. Mulch shall be clean and free of all foreign materials, including weeds, mold, deleterious materials, etc.
- No plastic sheeting or filter fabric shall be placed beneath shredded bark mulch beds. Weave fabric shall be used beneath all gravel mulch beds. Lap fabric 6" over adjacent coverages.
- Edge all beds with spade-cut edge unless otherwise noted.

## PLUG PLANTING NOTES:

- All plugs to be 4-1/2" deep X 2" diameter minimum.
- Plugs are to be planted in a hole dug with a trowel, spade or planting bar such that the hole is of a minimum diameter and depth to accommodate the plug and its roots, without damage.
- Plugs shall be spaced in a triangular layout approximately 24" on center. Plugs shall be planted through erosion control blanket where appropriate.
- Obtain plugs from a reputable nursery.
- Water plugs upon completion of planting so that soil is moist but not saturated.
- If planting is delayed more than six hours after delivery, store plugs in the shade, protect from weather and mechanical damage and keep them moist and cool. All plugs shall be planted within 24 hours after delivery.

## MAINTENANCE:

- Landscape Contractor shall provide a separate proposal to maintain all plants, shrubs, groundcover, perennials and annuals for a period of 12 months after acceptance.
- Contractor shall ensure that only competent and trained personnel shall provide such services and that such services be provided in a timely manner.
- Watering of seeded or sodded lawns shall begin immediately and shall continue to be provided continuously for the following 12 hours. Regardless, the landscape contractor shall be responsible for all landscape maintenance until project turnover.

## SIGHT TRIANGLES:

- No landscape material or other obstructions shall be placed or be maintained within the sight distance area so as to impede the vision between a height of thirty inches (30") and ten feet (10') above the adjacent streets or paving surfaces.
- Sight triangles at the intersection of a public street and a private access way (except for single family residences) shall also be formed by measuring from the point of intersection of the street frontage curbs and the entrance curb lines a distance of 35' and connecting the points so established to form the sight triangle area.

## TOPSOIL:

- Topsoil mix for all proposed landscape plant material (excluding turf areas) shall be five (5) parts well-drained screened organic topsoil to one (1) part Canadian sphagnum peat moss as per planting details. Rototill topsoil mix to a depth of 6" minimum and grade smooth.
- Provide a soil analysis, as requested, made by an independent soil-testing organization with the % of organic matter, inorganic matter, deleterious material, pH and mineral content.
- Any foreign topsoil used shall be free of roots, stumps, weeds, brush, stones (larger than 1"), litter or any other extraneous or toxic material. Landscape contractor shall be fully responsible for correcting all negative soil issues prior to plant installation. Killing and removal of all weeds shall be the responsibility of the landscape contractor as part of this task.
- Landscape contractor to apply pre-emergent herbicide to all planting beds upon completion of planting operations and before application of shredded bark mulch.
- Install siltation controls prior to commencement of any grading operations. Inspect and maintain all siltation fences on a weekly basis until vegetation is established.

## WARRANTY:

- All plant material (excluding ground cover, perennials and annuals) are to be warranted for a period of 12 months after complete installation of all landscape material at 100% of the installed price. All plant material deemed unhealthy, unsightly or having undue amounts of dead branches by the landscape architect shall be replaced under this warranty.
- Any plant material found to be defective shall be removed and replaced within 30 days of notification or in growth season determined to be best for that plant.
- Only one replacement per tree or shrub shall be required at the end of the warranty period, unless loss is due to failure to comply with the warranty.
- Landscape contractor shall not be liable due to acts of God or vandalism.
- Lawn establishment period will be in effect once the lawn has been mowed three times. Plant establishment period shall commence on the date of acceptance and 100% completion.
- A written guarantee shall be provided to the owner per conditions outlined in #1 above.

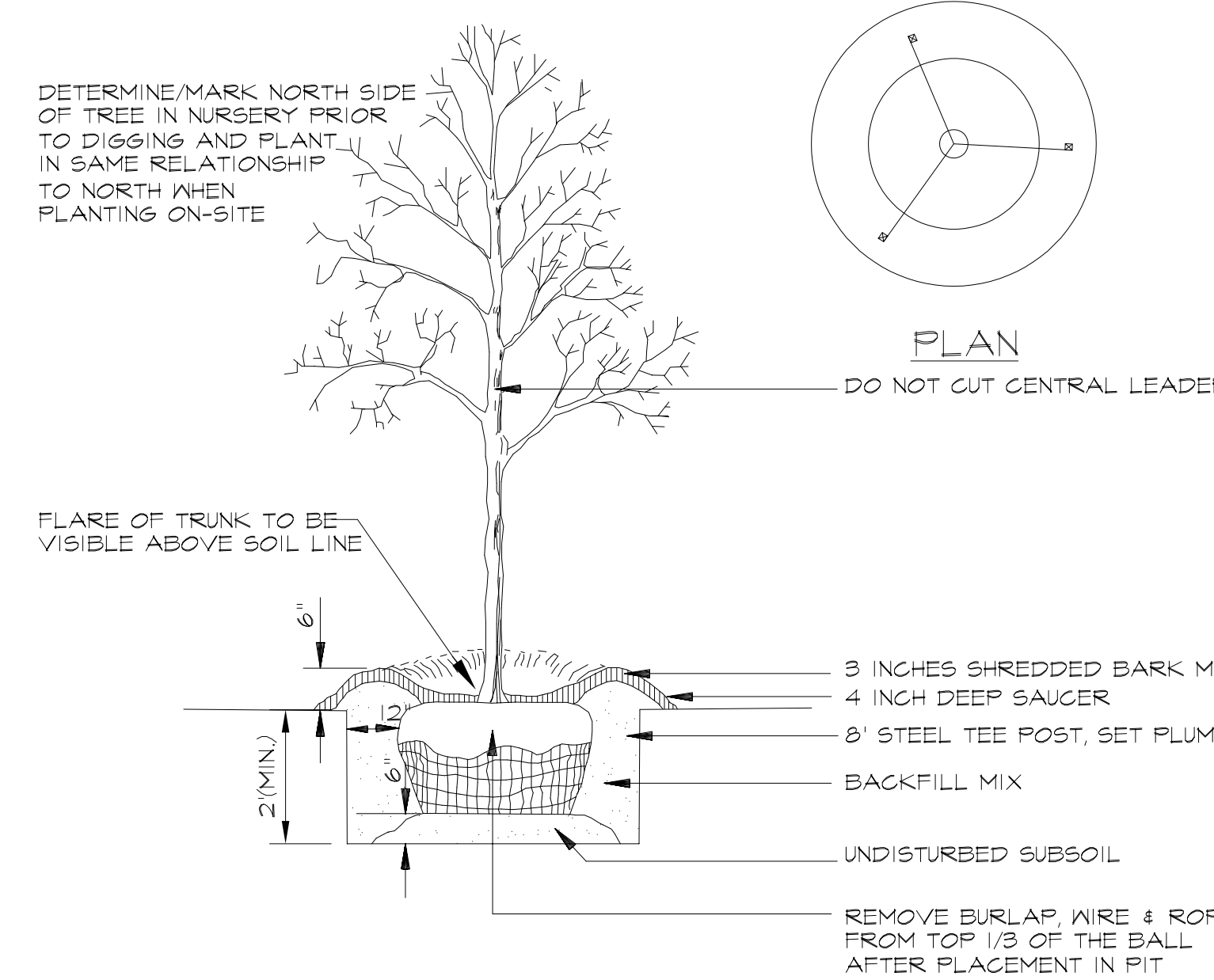
## TURF:

- All disturbed lawn areas to be seeded with a mixture of Turf-Type Fescue (300# per acre) and bluegrass (18# per acre). Lawn areas shall be unconditionally warranted for a period of 90 days from date of final acceptance. Bare areas more than one square foot per any 50 square feet shall be replaced.
- Seed and fertilization operations shall occur between May 1 and June 15th or between September 1 and October 15th unless directed by others in writing AND irrigation system is operating. Granular or pelleted fertilizer consisting of 50% water-insoluble slow release nitrogen, phosphorus and potassium in a 12-12-12 composition.
- The turf contractor shall be responsible for protection of finished grade; restore and repair any erosion or water damage and obtain owner's approval prior to seeding or sod installation.
- Landscape contractor shall offer an alternate price for sod in lieu of seed. Sod shall be cut at a uniform thickness of 3/4". No broken pieces, irregular pieces or torn pieces will be accepted.
- Any points carrying concentrated water loads and all slopes of 15% or greater shall be sodded.
- All sod shall be placed a maximum of 24 hours after harvesting.
- Recondition existing lawn areas damaged by contractor's operations including equipment/material storage and movement of vehicles.
- Sod Contractor to ensure sod is placed below sidewalk and all paved area elevations to allow for proper drainage.

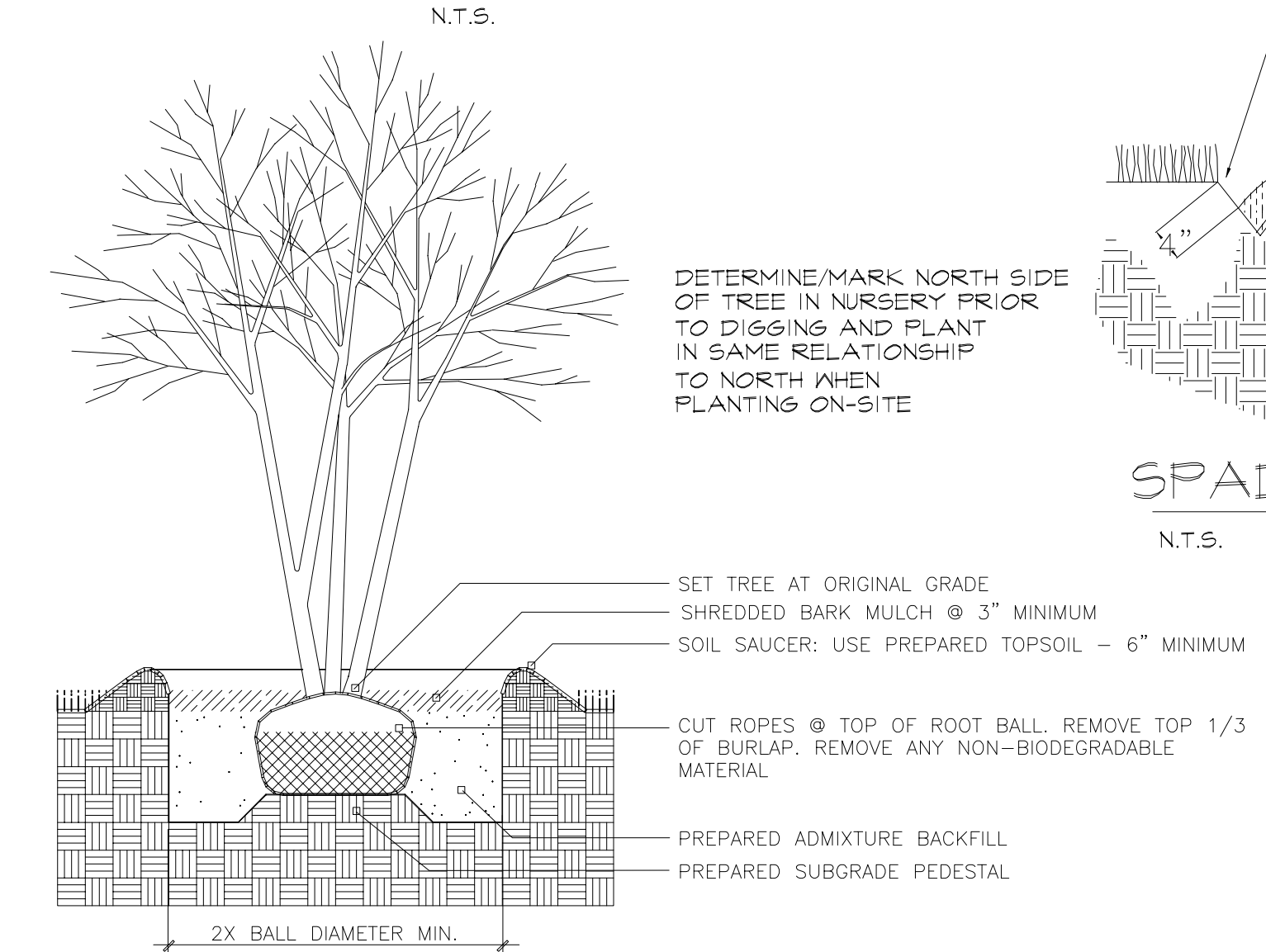
## IRRIGATION GUIDELINE SPECS:

### GENERAL:

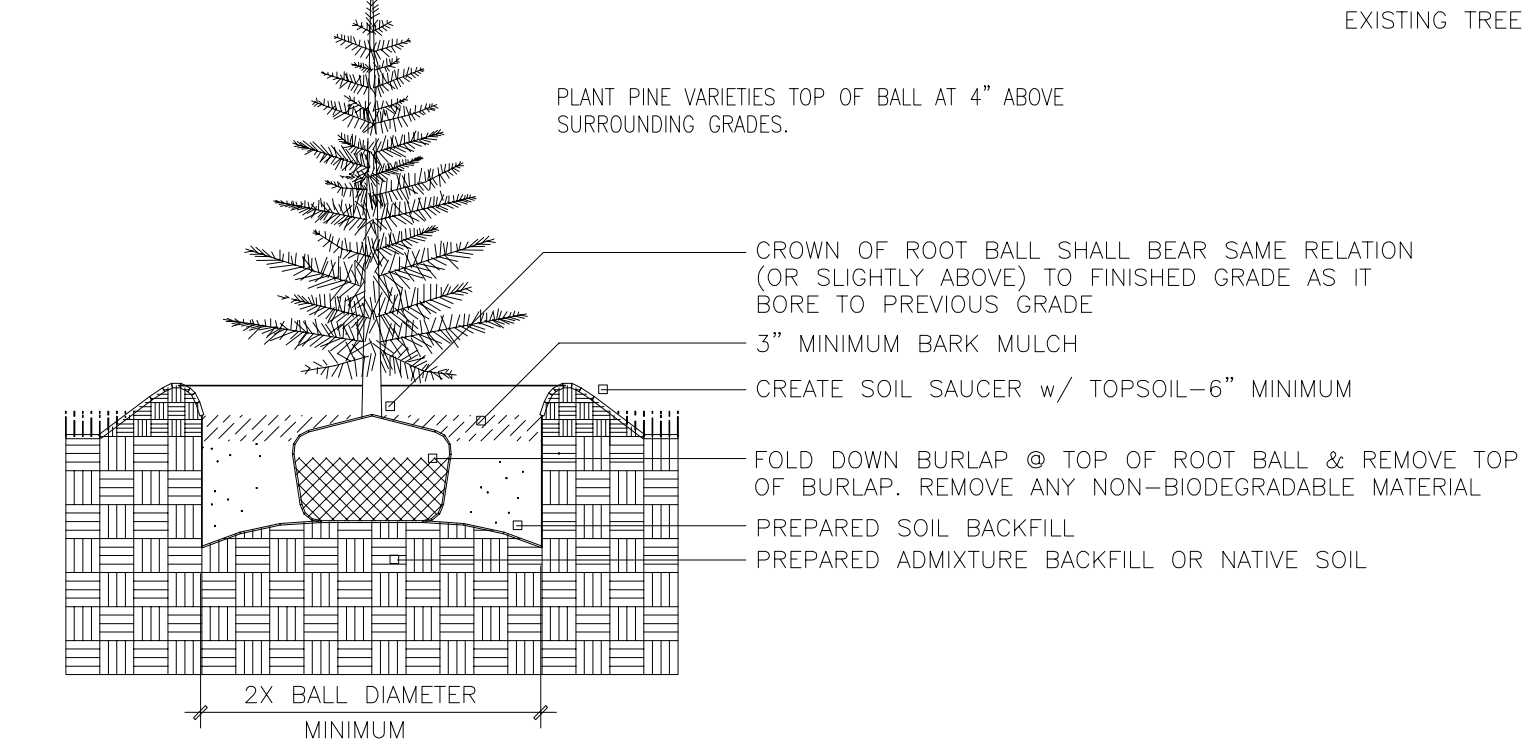
- System shall be designed for 30 gpm @ 80 PSI. Contractor to field verify actual conditions.
- Exact lap, backfill and controller location to be coordinated with owner or owner's representative.
- All control wiring to be 14 ga. Minimum 3 extra strands to be installed in each direction from the controller to the end of the mainline.
- All piping to be sleeved in SCH40 PVC when passing under hardscape. PVC Sleeve to be a minimum of twice the size of pipe(s) running through.
- Underground facilities, structures and utilities must be considered approximate only. There may be others not presently known or shown. It shall be the irrigation contractor's responsibility to determine or verify the existence of and exact location of the above (call 1-800-DIG-RITE).
- It shall be the irrigation contractor's responsibility to:
  - Verify all existing and proposed features shown on the drawings prior to commencement of work.
  - Report all discrepancies found with regard to existing conditions or proposed design to the landscape architect immediately for a decision.



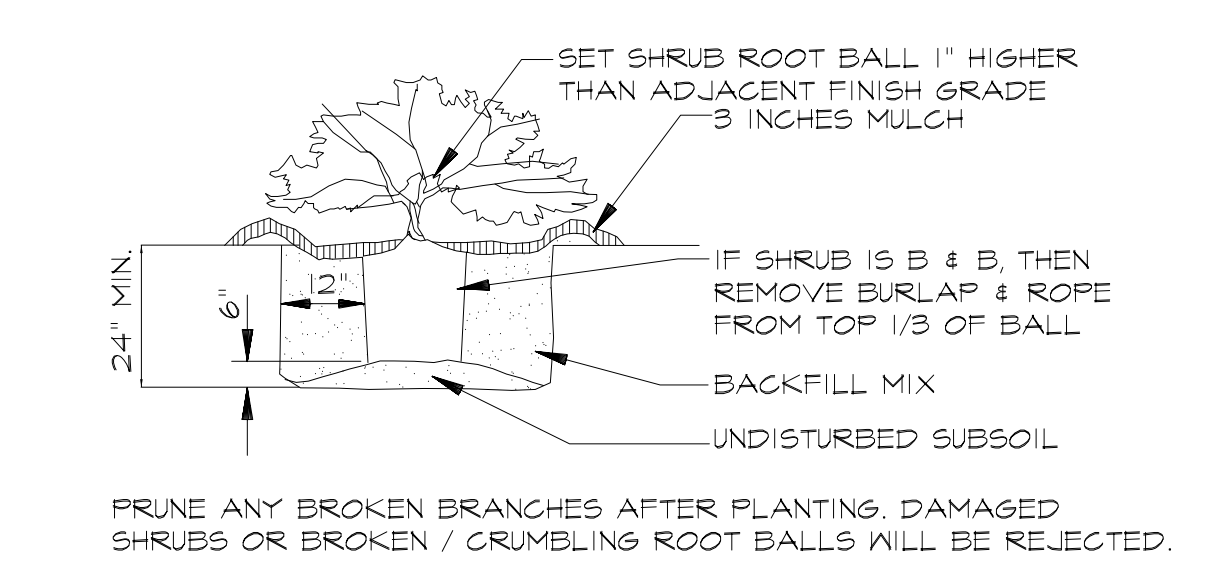
DECIDUOUS TREE PLANTING  
N.T.S.



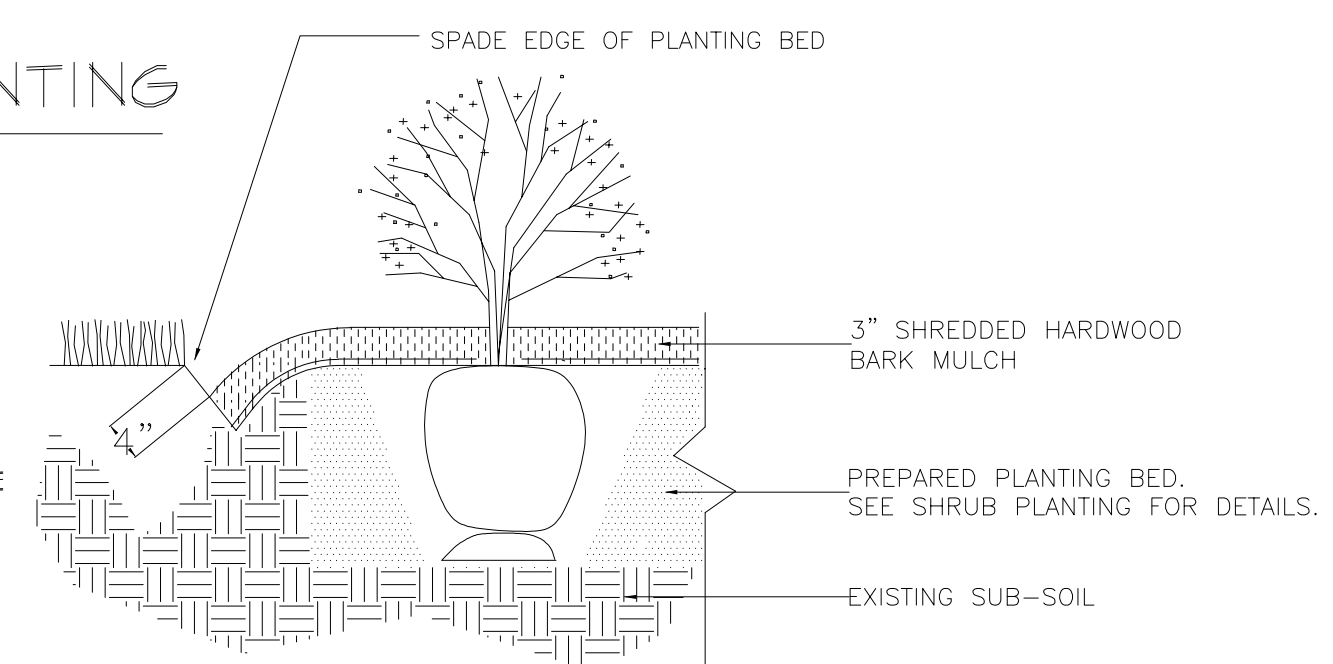
MULTI-STEM TREE PLANTING  
N.T.S.



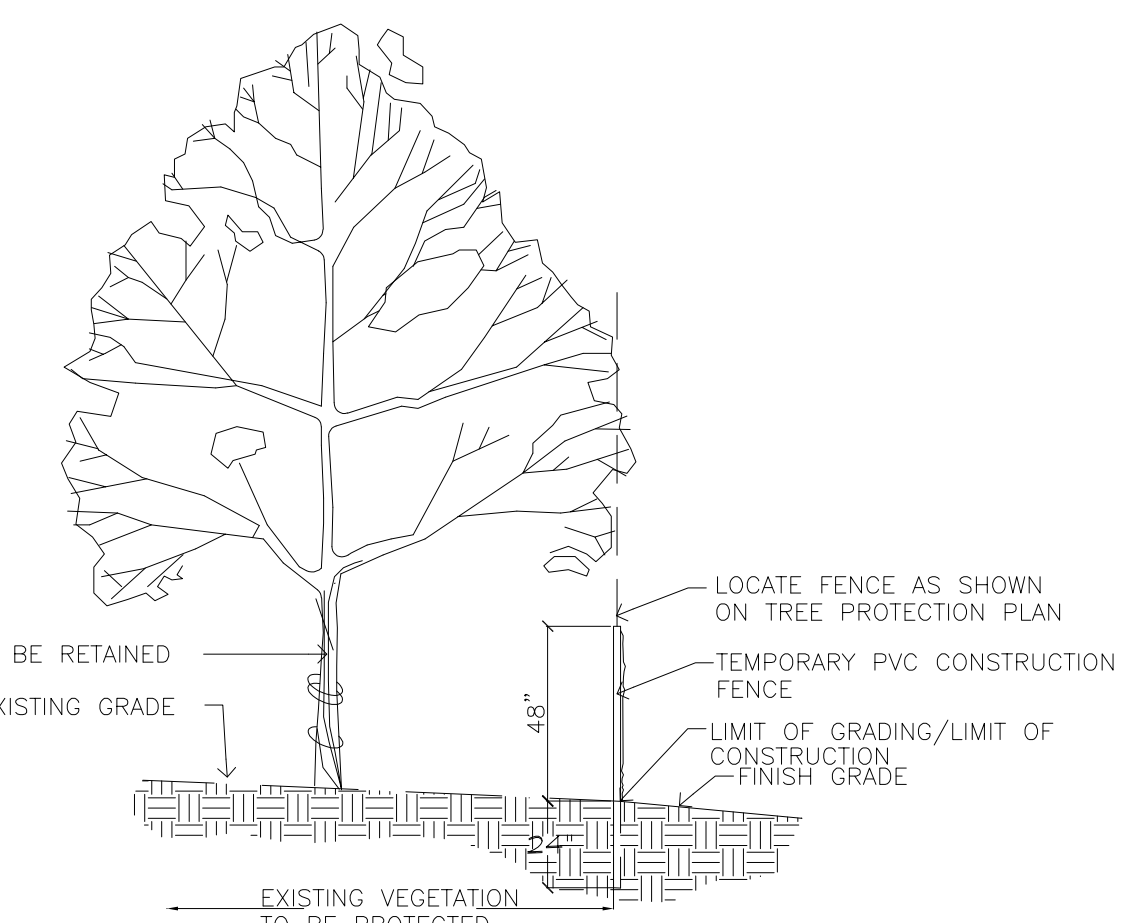
EVERGREEN TREE PLANTING  
N.T.S.



SHRUB PLANTING  
N.T.S.

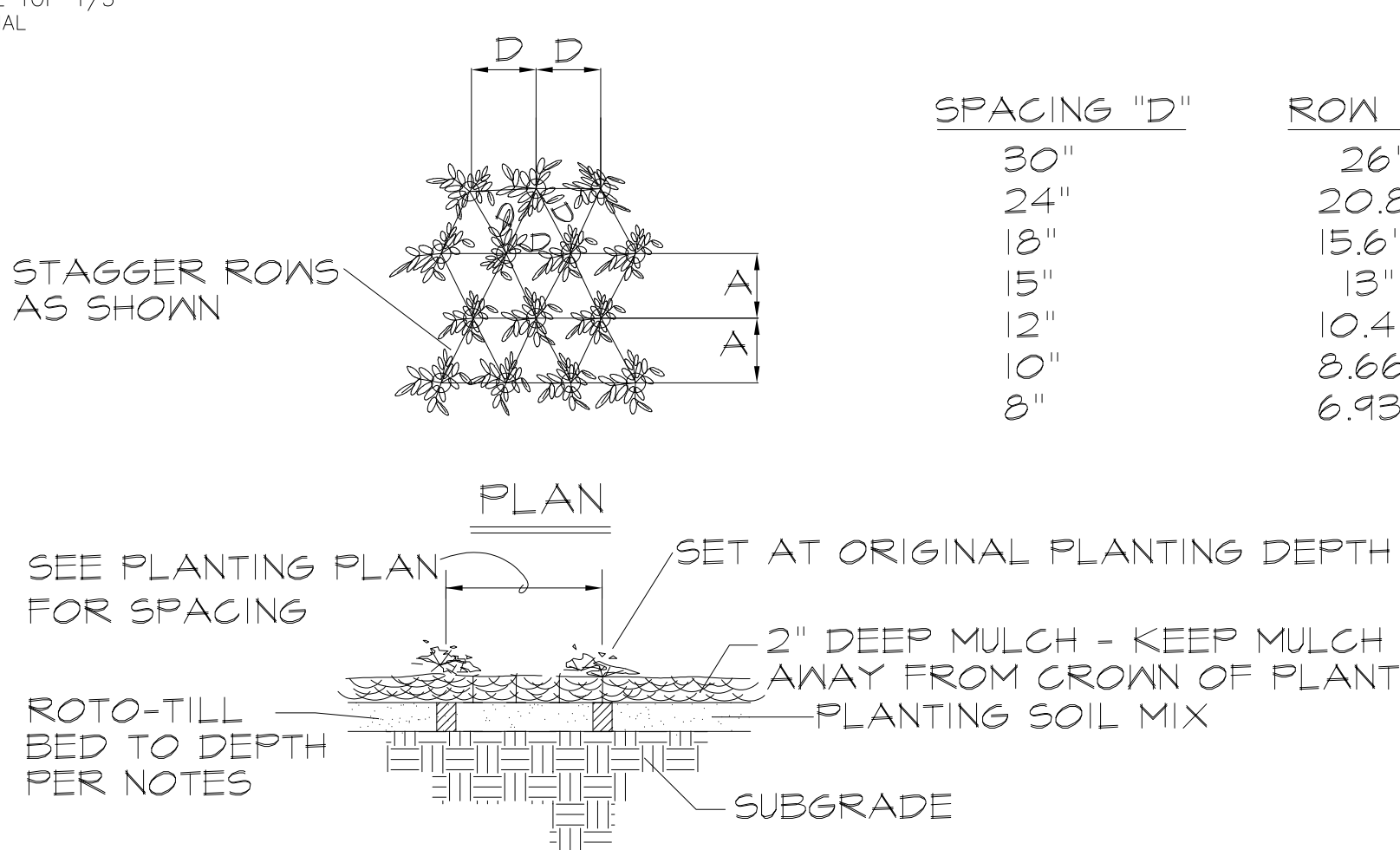


SPADE-CUT EDGE DETAIL  
N.T.S.



TREE PROTECTION DETAIL  
N.T.S.

SPACING "D"	ROW "A"	# OF PLANTS PER SQ. FT.
30"	26"	0.16
24"	20.8"	0.25
18"	15.6"	0.45
15"	13"	0.64
12"	10.4"	1.00
10"	8.66"	1.44
8"	6.93"	2.25



FORB/GRASS PLANTING DETAIL  
N.T.S.

REVISIONS	BY
11/27/2023	RAM

**landscape TECHNOLOGIES**

611 Jacobs Creek Drive  
St. Charles, Missouri 63075  
Phone: 636-938-1280  
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REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT #0000018  
DATE: 11-27-2023

DRAWN  
R. MARDIS  
CHECKED  
RAMMEL  
DATE  
10/31/2023  
SCALE  
1"=20'-0"  
JOB No.  
2023-170  
SHEET  
**L-2**  
OF TWO SHEETS

PLANTING PLAN FOR THE PROPOSED  
**42 Arnage Road**  
42 ARNAGE ROAD CHESTERFIELD, MO 63005

DRAWN  
R. MARDIS  
CHECKED  
RAMMEL  
DATE  
10/31/2023  
SCALE  
1"=20'-0"  
JOB No.  
2023-170  
SHEET  
**L-2**  
OF TWO SHEETS



Project		Catalog #		Type	
Prepared by		Notes		Date	



# McGraw-Edison

## GALN Galleon II

Area / Site Luminaire

### Product Features



### Product Certifications



### Interactive Menu

- Ordering Information [page 2](#)
- Mounting Details [page 3](#)
- Optical Distributions [page 5](#)
- Product Specifications [page 5](#)
- Energy and Performance Data [page 6](#)
- Control Options [page 11](#)

### Quick Facts

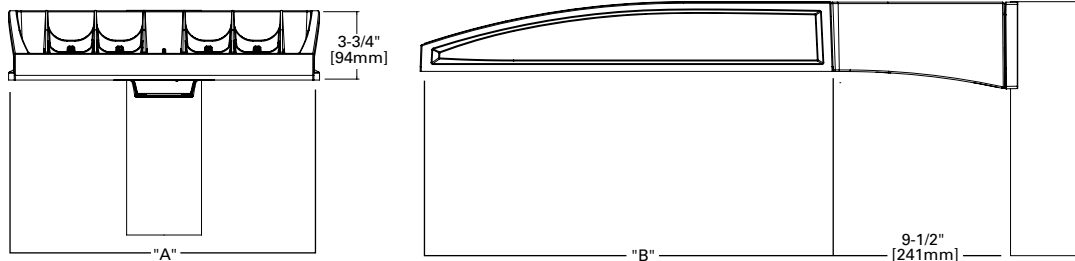
- Lumen packages range from 3,300 - 73,500 (33W - 552W)
- 17 optical distributions
- Efficacy up to 159 lumens per watt

### Connected Systems

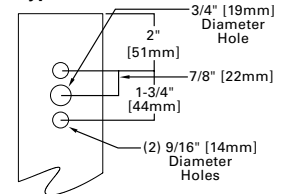
- WaveLinx Lite
- WaveLinx

### Dimensional Details

Standard Pole Mount Arm



Pole Drilling Pattern  
Type "N"



Number of Light Squares	Width "A"	Housing Length "B"	Weight with Standard or QM Arm	EPA with Standard or QM Arm
1-4	16"	22"	29 lb	0.95
5-6	22"	22"	39 lb	0.95
7-9	22"	28-1/8"	48 lb	1.1

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

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

Ordering Information


SAMPLE NUMBER: GALN-SA4C-740-U-T4FT-GM

Product Family <sup>1,2</sup>	Light Engine		Color Temperature	Voltage	Distribution	Mounting	Finish
	Configuration	Drive Current					
GALN=Galleon II BAA-GALN=Galleon II Buy American Act Compliant <sup>27</sup> TAA-GALN=Galleon II Trade Agreements Act Compliant <sup>27</sup>	SA1=1 Square SA2=2 Squares SA3=3 Squares SA4=4 Squares SA5=5 Squares SA6=6 Squares SA7=7 Squares SA8=8 Squares SA9=9 Squares	A=600mA B=800mA C=1000mA D=1200mA <sup>4,17</sup> Z=Configured <sup>23</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 835=80CRI, 3500K 840=80CRI, 4000K 930=90CRI, 3000K 935=90CRI, 3500K 940=90CRI, 4000K 950=90CRI, 5000K AMB=Amber, 590nm <sup>15,17</sup>	U=120-277V H=347V-480V <sup>7,30</sup> 1=120V 2=208V 3=240V 4=277V 8=480V <sup>7,30</sup> 9=347V <sup>7</sup> DV=277V-480V DuraVolt Drivers <sup>29,30,31</sup>	T1=Type I T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square 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 AFL=Automotive Frontline	[Blank]=Standard Pole Mount Arm QU=Quick Mount Universal Arm QM=Pole Mount Arm with Quick Mount Adaptor PA=Pole Mount, Adjustable SP=3" Slipfitter, Adjustable <sup>8</sup> SP2=2-3/8" Slipfitter, Adjustable <sup>8</sup> QMA=Quick Mount Mast Arm, Fixed MA=Mast Arm, Fixed WM=Wall Mount, Fixed WA=Wall Mount, Adjustable UP=Upswept Arm	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White RALXX=Custom Color

Options (Add as Suffix)	Controls and Systems Options (Add as Suffix)	Accessories (Order Separately) <sup>28</sup>
<p>DIM=External 0-10V Dimming Leads <sup>20</sup> F=Single Fuse (120, 277 or 347V Specify Voltage) FF=Double Fuse (208, 240 or 480V Specify Voltage) 20K=20kV UL 1449 fused surge protective device <sup>10</sup> 2L=Two Circuits <sup>10</sup> HA=50°C High Ambient HSS=Installed House Side Shield <sup>18</sup> GRSBK=Glare Reducing Shield, Black <sup>23</sup> GRSWH=Glare Reducing Shield, White <sup>23</sup> LCP=Light Square Trim Painted to Match Housing <sup>24</sup> TH=Tool-less Door Hardware <sup>5</sup> CC=Coastal Construction finish <sup>3</sup> L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right AHD145=After Hours Dim, 5 Hours <sup>22</sup> AHD245=After Hours Dim, 6 Hours <sup>22</sup> AHD255=After Hours Dim, 7 Hours <sup>22</sup> AHD355=After Hours Dim, 8 Hours <sup>22</sup> DALI=DALI Drivers</p>	<p>BPC=Button Type Photocontrol. Must specify voltage 120V, 208V, 240V or 277V. <sup>6</sup> PR=NEMA 3-PIN Photocontrol Receptacle PR7=NEMA 7-PIN Photocontrol Receptacle <sup>21</sup> FADC=Field Adjustable Dimming Controller <sup>32</sup> PSC=Photocontrol Shorting Cap SPB2=Dimming Motion Sensor, 9'-20' mounting <sup>24</sup> SPB4=Dimming Motion Sensor, 21'-40' mounting <sup>24</sup> SPB2/X=Dimming Motion Sensor, limited square count, 9'-20' mounting <sup>24</sup> SPB4/X=Dimming Motion Sensor, limited square count, 21'-40' mounting <sup>24</sup> MS/DIM-L20=Motion Sensor for Dimming Operation, 9'-20' Mounting <sup>34</sup> MS/DIM-L40=Motion Sensor for Dimming Operation, 21'-40' Mounting <sup>34</sup> ZW=WaveLinX-enabled 4-PIN Twistlock Receptacle <sup>19</sup> ZD=SR Driver-enabled 4-PIN Twistlock Receptacle <sup>19</sup> ZW-WOBXX=WaveLinX Lite, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting <sup>19,12</sup> ZW-WOFXX=WaveLinX Lite, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting <sup>19,12</sup> ZD-WOBXX=WaveLinX Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting <sup>19,12</sup> ZD-WOFXX=WaveLinX Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting <sup>19,12</sup> ZW-SWPD4XX=WaveLinX Pro, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting <sup>19,12,13</sup> ZW-SWPD5XX=WaveLinX Pro, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting <sup>19,12,13</sup> ZD-SWPD4XX=WaveLinX Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting <sup>19,12,13</sup> ZD-SWPD5XX=WaveLinX Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting <sup>19,12,13</sup> DIM10-L20=Synapse Occupancy Sensor (9'-20' Mounting) <sup>19</sup> DIM10-L40=Synapse Occupancy Sensor (21'-40' Mounting) <sup>19</sup></p>	<p>OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V OA/RA1013=Photocontrol Shorting Cap OA/RA1014=120V Photocontrol MA1252=10kV Surge Module Replacement MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon SRA238=Adapter kit for mounting 3" SP arm to 2-3/8" O.D. vertical tenon FSIR-100=Wireless Configuration Tool for MS/DIM <sup>34</sup> LS/HSS=Field Installed House Side Shield <sup>9,18</sup> LS/GRSBK-2PK =Glare Reducing Shield, Black <sup>9,23</sup> LS/GRSWH-2PK =Glare Reducing Shield, White <sup>9,23</sup> LS/PFS=Perimeter Shield, Black <sup>16</sup> WOLC-7P-10A=WaveLinX Outdoor Control Module <sup>11,19</sup> WOB-XX=WaveLinX Lite Sensor, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting <sup>12,14,19</sup> WOF-XX=WaveLinX Lite Sensor, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting <sup>12,14,19</sup> SWPD4-XX=WaveLinX Sensor, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting <sup>12,13,14,19</sup> SWPD5-XX=WaveLinX Sensor, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting <sup>12,13,14,19</sup></p>

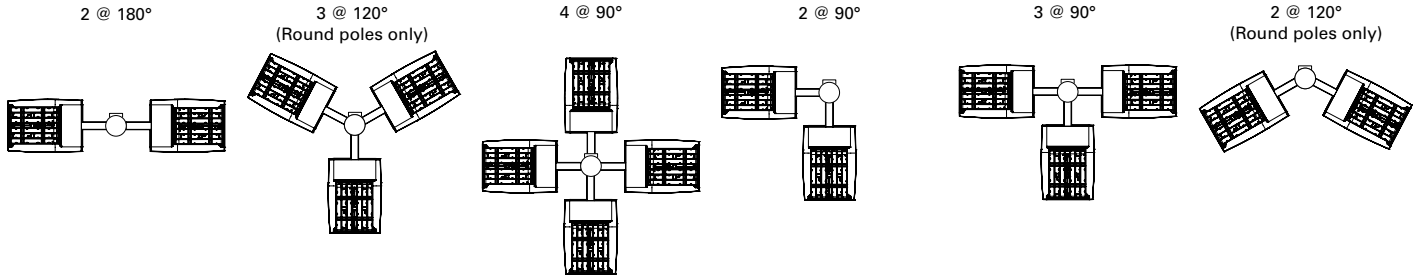
- NOTES:**
- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WPS13001EN for additional support information.
  - DesignLights Consortium® Qualified. Refer to [www.designlights.org](http://www.designlights.org) Qualified 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.
  - Drive current 1200mA not available with color temperatures 722, 727, 827, 830 or 930 when the HSS option is selected.
  - TH option not 3G rated. Not available with Coastal Construction (CC) option.
  - Not available with voltage options H, 8 or 9.
  - Requires the use of an internal step down transformer when combined with sensor options. Not available in combination with the HA high ambient and sensor options at 1A.
  - SP arm limited to 3" O.D. vertical tenon. SP2 limited to 2-3/8" O.D. vertical tenon.
  - One required for each Light Square.
  - 2L is not available with SPB at 347V or 480V. Not available with WaveLinX or Enlighted sensors, or 20kV surge option.
  - 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. WAC not required for LC Bluetooth sensors.
  - Requires ZW or ZD receptacle.
  - Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Exact luminaire wattage available in IES files. 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.
  - Not for use with T1, 5NQ, 5MQ, 5WQ or RW optics.
  - Cannot be used with other control options.
  - Low voltage control lead brought out 18" outside fixture. Not available with DALI or integrated controls options
  - Not available if any SPB, LWR, or WaveLinX 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.
  - Not for use with T1, T4FT, T4W or SL4 optics.
  - Sensor configuration mobile application required for configuration. See controls page for details.
  - Replace X with number of Light Squares controlled by the SPB, referencing the "SPB/X Availability Table" on the controls page.
  - Not available with HSS, GRSWH or GRSBK.
  - Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to [DOMESTIC-PREFERENCES](http://www.domestic-preferences.com) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
  - For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
  - DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit [www.signify.com/duravolt](http://www.signify.com/duravolt) for more information.
  - 480V not to be used with ungrounded or impedance grounded systems.
  - Not available in 1 square configuration at 800mA or below. Not available with any control option except SPB.
  - Cannot be used with PR7 or other motion response control options.
  - Use GALN Product Configurator to specify lumen output, drive current and wattage. Not available with AMB.
  - Uses the FSP-211 motion sensor. 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.

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

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

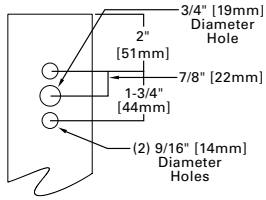
Mounting Details

Pole Configuration Options

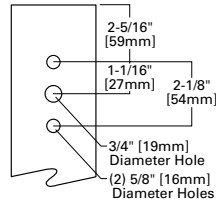


Pole Drilling Patterns

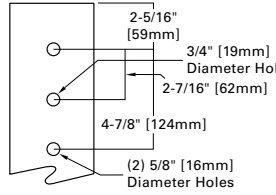
Type "N"



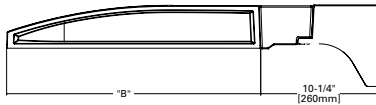
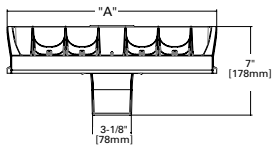
Type "R"



Type "M"

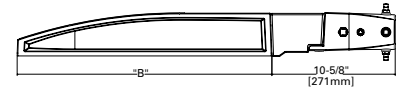
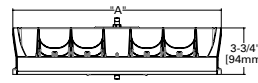


Quick Mount Universal Arm (QU)



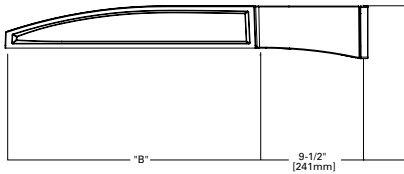
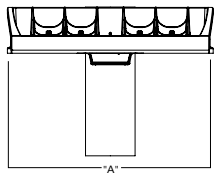
\*NOTE: Universal bolt pattern compatible with Type N through Type M drilling patterns

Quick Mount Mast Arm (QMA)



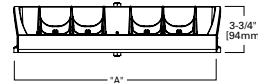
\*NOTE: Fits 2-3/8" O.D. tenon

Pole Mount Arm with Quick Mount Adaptor (QM)



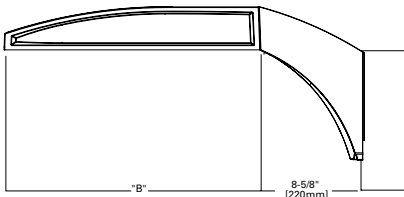
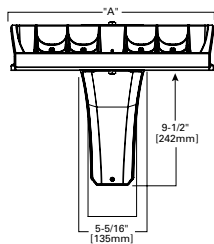
\*NOTE: Use Type N drilling pattern

Mast Arm, Fixed (MA)



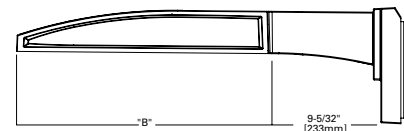
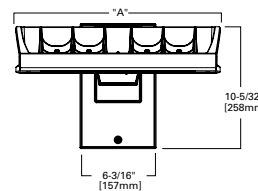
\*NOTE: Fits 2-3/8" O.D. tenon

Upswept Arm (UP)



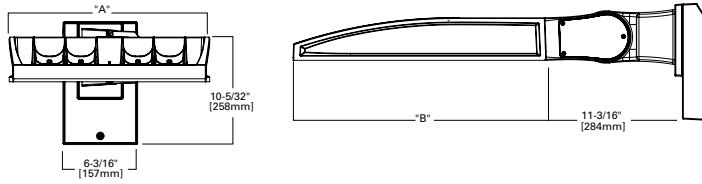
\*NOTE: Universal bolt pattern compatible with Type N through Type M drilling patterns

Wall Mount, Fixed (WM)



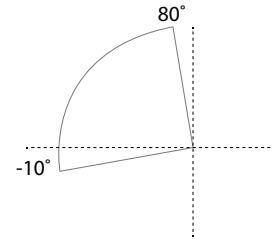
Mounting Details

Wall Mount, Adjustable (WA)

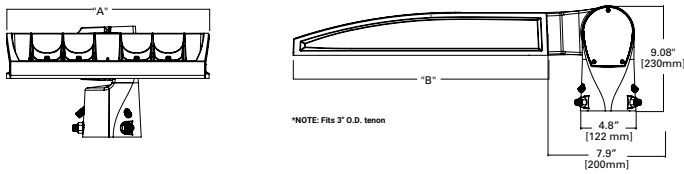


Adjustable Arm Range of Motion

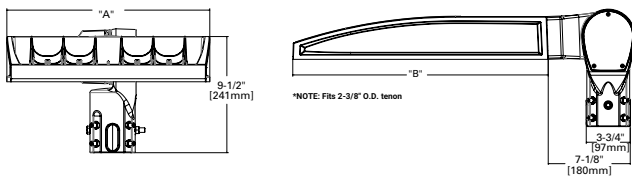
- Includes WA, SP, SP2 and PA mounting options
- Adjustable in increments of 5°
- Must maintain downward facing orientation



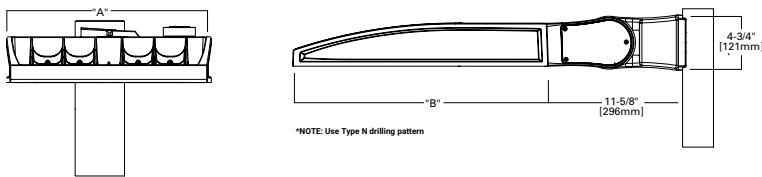
3" Slipfitter, Adjustable (SP)



2-3/8" Slipfitter, Adjustable (SP2)



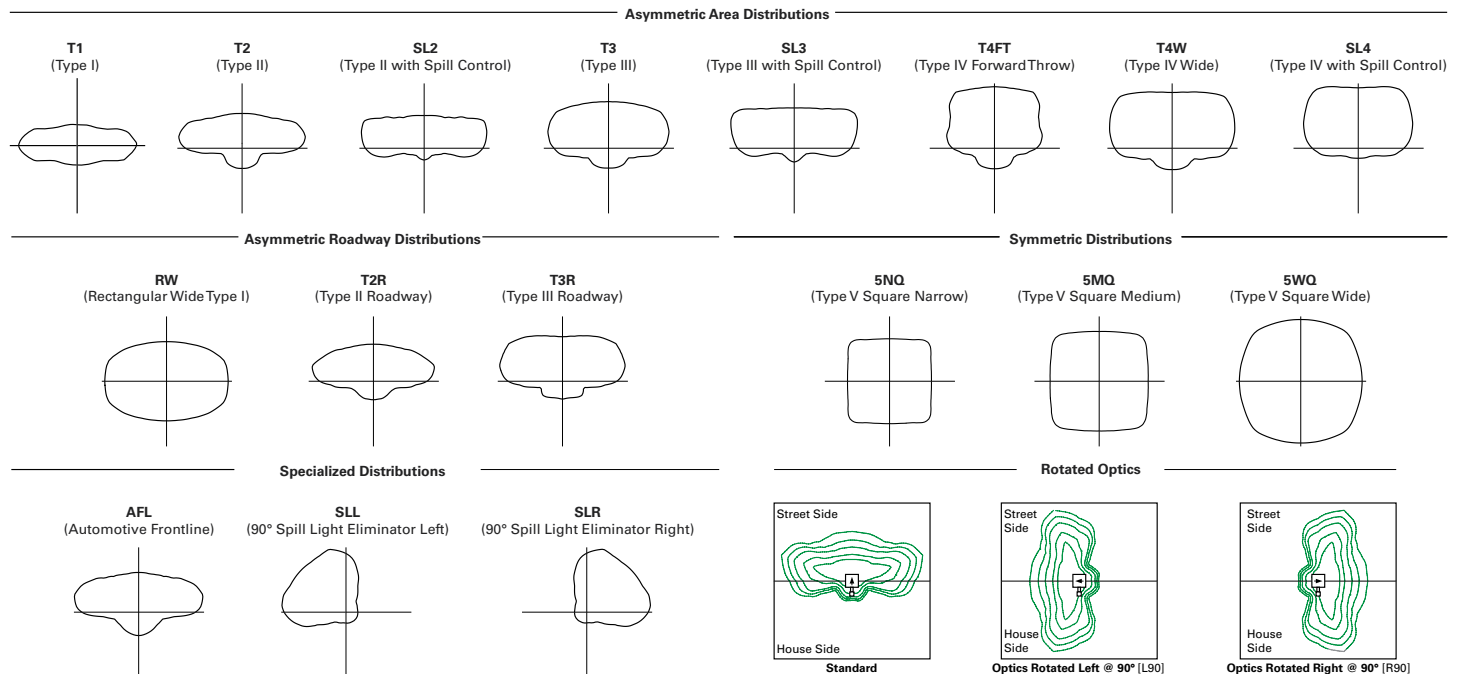
Pole Mount, Adjustable Arm (PA)



Fixture Weights and EPAs

Tilt Angle (Degrees)	Number of Light Squares	Weight	1 @ 90°	2 @ 180°	2 @ 90°	2 @ 120°	3 @ 90°	3 @ 120°	4 @ 90°
0°	1-4	33.5 lb (15.2 kg)	0.85	1.70	1.46	1.66	2.31	2.25	2.35
	5-6	43.5 lb (19.7 kg)	0.86	1.71	1.62	1.80	2.49	2.35	2.50
	7-9	52.5 lb (23.8 kg)	0.98	1.95	1.75	1.98	2.73	2.55	2.76
15°	1-4	33.5 lb (15.2 kg)	1.10	1.71	1.95	2.26	2.81	3.30	2.87
	5-6	43.5 lb (19.7 kg)	1.42	1.71	2.27	2.72	3.13	3.63	3.15
	7-9	52.5 lb (23.8 kg)	1.69	1.96	2.67	3.22	3.65	4.38	3.72
30°	1-4	33.5 lb (15.2 kg)	1.72	1.81	2.58	3.21	3.44	4.59	3.53
	5-6	43.5 lb (19.7 kg)	2.26	2.29	3.11	4.00	3.97	5.27	4.00
	7-9	52.5 lb (23.8 kg)	2.75	2.85	3.73	4.83	4.71	6.45	4.81
45°	1-4	33.5 lb (15.2 kg)	2.25	2.36	3.10	4.00	3.96	5.63	4.08
	5-6	43.5 lb (19.7 kg)	2.96	2.99	3.81	5.06	4.67	6.49	4.71
	7-9	52.5 lb (23.8 kg)	3.63	3.76	3.73	6.17	5.59	8.03	5.73
60°	1-4	33.5 lb (15.2 kg)	2.63	2.77	3.49	4.58	4.34	6.21	4.48
	5-6	43.5 lb (19.7 kg)	3.46	3.51	4.32	5.84	5.19	7.01	5.22
	7-9	52.5 lb (23.8 kg)	4.27	4.44	5.25	7.15	6.23	8.80	6.40

Optical Distributions



Product Specifications

**Construction**

- Die-cast aluminum housing and heat sink
- Three housing sizes, using 1 to 9 light squares

**Optics**

- High-efficiency injection-molded AccuLED Optics technology
- 17 optical distributions for area site and roadway applications
- 3 shielding options include HSS, GRS and PFS
- IDA Certified (3000K CCT and warmer only, fixed mounting options)

**Electrical**

- Removable power tray assembly includes drivers, surge modules and control modules for ease of maintenance and serviceability
- Standard with 0-10V dimming
- Standard with 10kV surge module, optional 20kV surge module

- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration

**Mounting**

- Arms are factory installed, enabling closed-housing installation
- All arms suitable for round or square pole installation
- All arms provide clearance for multiple fixture installations at 90°

**Finish**

- 6 standard finishes use super durable TGIC polyester powder coat paint, providing 2.5 mil nominal thickness and salt-spray tested to 3,000 hours per ASTM B117
- RAL and custom color matches available
- Coastal Construction (CC) option salt-spray tested to 5,000 hours per ASTM B117, achieving a scribe rating of 9 per ASTM D1654

**Typical Applications**

- Outdoor, Parking Lots, Walkways, Roadways, Building Areas

**Warranty**

- Five year limited warranty

Energy and Performance Data

Lumen Maintenance (TM-21)

Drive Current	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 hours**
Up to 1A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.7%	98.3%	98.1%	97.4%	> 1.9M
	50°C	98.2%	97.2%	96.8%	95.2%	> 851,000
1.2A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.5%	97.9%	97.7%	96.7%	> 1.3M

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

\* Supported by IES TM-21 standards  
 \*\* Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LM-80.

FADC Settings  
 SA1-SA3 (A, B, C, D Drive Current)

FADC Position	Percent of Typical Lumen Output
1	25%
2	48%
3	56%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

FADC Settings  
 SA4-SA6 (A, B, C, D Drive Current)

FADC Position	Percent of Typical Lumen Output
1	14%
2	25%
3	32%
4	43%
5	49%
6	57%
7	65%
8	72%
9	80%
10	100%

FADC Settings  
 SA7-SA9 (A, B, C, D Drive Current)

FADC Position	Percent of Typical Lumen Output
1	19%
2	38%
3	47%
4	63%
5	74%
6	85%
7	95%
8	97%
9	100%
10	100%

Performance Table, Drive Current "A" (615mA)

Number of Light Squares		1	2	3	4	5	6	7	8	9
Nominal Power (Watts)		33	63	93	121	154	182	215	244	274
Input Current @ 120V		0.283	0.529	0.778	1.058	1.310	1.556	1.839	2.089	2.335
Input Current @ 208V		0.165	0.309	0.460	0.618	0.771	0.919	1.082	1.240	1.379
Input Current @ 240V		0.143	0.270	0.398	0.540	0.671	0.796	0.944	1.078	1.194
Input Current @ 277V		0.125	0.237	0.352	0.473	0.581	0.705	0.818	0.962	1.057
Input Current @ 347V		0.098	0.181	0.272	0.362	0.454	0.544	0.636	0.738	0.816
Input Current @ 480V		0.073	0.133	0.200	0.267	0.335	0.400	0.470	0.554	0.600
Optics										
T1	4000K Lumens	4,619	9,180	13,628	18,059	22,861	27,070	31,796	36,863	41,385
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
	Lumens per Watt	140	146	147	149	148	149	148	151	151
T2	4000K Lumens	4,654	9,249	13,730	18,194	23,032	27,273	32,034	37,138	41,694
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
	Lumens per Watt	141	147	148	150	150	150	149	152	152
T2R	4000K Lumens	4,716	9,372	13,913	18,437	23,340	27,637	32,462	37,634	42,251
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
	Lumens per Watt	143	149	150	152	152	152	151	154	154
T3	4000K Lumens	4,589	9,120	13,538	17,940	22,711	26,892	31,587	36,620	41,112
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4
	Lumens per Watt	139	145	146	148	147	148	147	150	150
T3R	4000K Lumens	4,735	9,411	13,970	18,513	23,436	27,751	32,596	37,790	42,425
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
	Lumens per Watt	143	149	150	153	152	152	152	155	155
T4FT	4000K Lumens	4,617	9,176	13,622	18,051	22,851	27,058	31,782	36,847	41,366
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	140	146	146	149	148	149	148	151	151
T4W	4000K Lumens	4,631	9,203	13,662	18,104	22,918	27,138	31,876	36,955	41,488
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	140	146	147	150	149	149	148	151	151
SL2	4000K Lumens	4,619	9,180	13,627	18,058	22,860	27,069	31,795	36,861	41,383
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5
	Lumens per Watt	140	146	147	149	148	149	148	151	151
SL3	4000K Lumens	4,586	9,115	13,531	17,931	22,699	26,879	31,571	36,602	41,091
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
	Lumens per Watt	139	145	145	148	147	148	147	150	150
SL4	4000K Lumens	4,529	9,002	13,363	17,708	22,417	26,544	31,178	36,146	40,580
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	137	143	144	146	146	146	145	148	148
5NQ	4000K Lumens	4,829	9,598	14,247	18,880	23,901	28,301	33,242	38,539	43,266
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3
	Lumens per Watt	146	152	153	156	155	155	155	158	158
5MQ	4000K Lumens	4,853	9,645	14,318	18,974	24,020	28,442	33,407	38,731	43,482
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	147	153	154	157	156	156	155	159	159
5WQ	4000K Lumens	4,843	9,625	14,288	18,934	23,969	28,382	33,337	38,649	43,390
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	147	153	154	156	156	156	155	158	158
SLL/ SLR	4000K Lumens	3,989	7,927	11,768	15,594	19,741	23,375	27,456	31,831	35,736
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
	Lumens per Watt	121	126	127	129	128	128	128	130	130
RW	4000K Lumens	4,774	9,488	14,085	18,665	23,628	27,979	32,863	38,100	42,774
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
	Lumens per Watt	145	151	151	154	153	154	153	156	156
AFL	4000K Lumens	4,673	9,286	13,785	18,268	23,126	27,384	32,164	37,290	41,864
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3
	Lumens per Watt	142	147	148	151	150	150	150	153	153

\* Nominal data for 70 CRI. \*\* For additional performance data, please reference the Galleon Supplemental Performance Guide.

Performance Table, Drive Current "B" (800mA)

Number of Light Squares		1	2	3	4	5	6	7	8	9
Nominal Power (Watts)		44	82	121	164	204	243	286	325	364
Input Current @ 120V		0.367	0.689	1.014	1.378	1.704	2.027	2.393	2.716	3.041
Input Current @ 208V		0.213	0.401	0.594	0.802	0.997	1.188	1.400	1.605	1.782
Input Current @ 240V		0.184	0.347	0.510	0.694	0.860	1.021	1.210	1.386	1.531
Input Current @ 277V		0.160	0.303	0.449	0.605	0.757	0.898	1.065	1.242	1.347
Input Current @ 347V		0.125	0.235	0.355	0.471	0.592	0.710	0.828	0.958	1.065
Input Current @ 480V		0.092	0.172	0.258	0.344	0.432	0.517	0.605	0.706	0.775
Optics										
T1	4000K Lumens	5,748	11,423	16,957	22,470	28,446	33,683	39,563	45,867	51,494
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	131	139	140	137	139	139	138	141	141
T2	4000K Lumens	5,790	11,508	17,083	22,638	28,658	33,935	39,859	46,210	51,879
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	132	140	141	138	140	140	139	142	143
T2R	4000K Lumens	5,868	11,662	17,311	22,941	29,041	34,388	40,391	46,827	52,572
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
	Lumens per Watt	133	142	143	140	142	142	141	144	144
T3	4000K Lumens	5,710	11,347	16,845	22,322	28,258	33,461	39,303	45,565	51,155
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5
	Lumens per Watt	130	138	139	136	139	138	137	140	141
T3R	4000K Lumens	5,892	11,710	17,383	23,035	29,161	34,530	40,558	47,020	52,788
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	134	143	144	140	143	142	142	145	145
T4FT	4000K Lumens	5,745	11,418	16,949	22,460	28,433	33,668	39,546	45,847	51,471
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	131	139	140	137	139	139	138	141	141
T4W	4000K Lumens	5,762	11,451	16,999	22,526	28,517	33,767	39,662	45,982	51,622
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	131	140	140	137	140	139	139	141	142
SL2	4000K Lumens	5,747	11,422	16,956	22,469	28,444	33,681	39,561	45,865	51,491
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	131	139	140	137	139	139	138	141	141
SL3	4000K Lumens	5,707	11,342	16,836	22,311	28,244	33,444	39,283	45,542	51,129
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	130	138	139	136	138	138	137	140	140
SL4	4000K Lumens	5,636	11,201	16,627	22,034	27,893	33,028	38,794	44,976	50,493
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	128	137	137	134	137	136	136	138	139
5NQ	4000K Lumens	6,009	11,942	17,727	23,492	29,739	35,214	41,362	47,953	53,835
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
	Lumens per Watt	137	146	147	143	146	145	145	148	148
5MQ	4000K Lumens	6,039	12,001	17,816	23,609	29,887	35,389	41,568	48,191	54,103
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	137	146	147	144	147	146	145	148	149
5WQ	4000K Lumens	6,026	11,976	17,778	23,559	29,824	35,315	41,480	48,090	53,989
	BUG Rating	B3-U0-G1	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	137	146	147	144	146	145	145	148	148
SLL/ SLR	4000K Lumens	4,963	9,863	14,642	19,403	24,563	29,085	34,163	39,607	44,465
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	113	120	121	118	120	120	119	122	122
RW	4000K Lumens	5,940	11,806	17,526	23,224	29,400	34,813	40,891	47,407	53,222
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	135	144	145	142	144	143	143	146	146
AFL	4000K Lumens	5,814	11,555	17,153	22,730	28,775	34,073	40,021	46,398	52,090
	BUG Rating	B1-U0-G1	B2-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4
	Lumens per Watt	132	141	142	139	141	140	140	143	143

\* Nominal data for 70 CRI. \*\* For additional performance data, please reference the Galleon Supplemental Performance Guide.



Performance Table, Drive Current "C" (1050mA)

Number of Light Squares		1	2	3	4	5	6	7	8	9
<b>Nominal Power (Watts)</b>		57	108	160	213	269	321	377	429	481
<b>Input Current @ 120V</b>		0.478	0.905	1.338	1.810	2.244	2.675	3.150	3.584	4.013
<b>Input Current @ 208V</b>		0.279	0.532	0.780	1.064	1.313	1.559	1.845	2.093	2.339
<b>Input Current @ 240V</b>		0.243	0.458	0.664	0.916	1.123	1.328	1.582	1.788	1.991
<b>Input Current @ 277V</b>		0.213	0.404	0.582	0.808	0.997	1.164	1.401	1.589	1.745
<b>Input Current @ 347V</b>		0.164	0.322	0.471	0.644	0.795	0.943	1.117	1.269	1.414
<b>Input Current @ 480V</b>		0.121	0.235	0.341	0.469	0.579	0.681	0.814	0.923	1.022
Optics										
<b>T1</b>	4000K Lumens	7,101	14,113	20,950	27,763	35,146	41,616	48,882	56,671	63,623
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	125	131	131	130	131	130	130	132	132
<b>T2</b>	4000K Lumens	7,154	14,219	21,107	27,970	35,408	41,927	49,247	57,094	64,098
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	132	132	131	132	131	131	133	133
<b>T2R</b>	4000K Lumens	7,250	14,408	21,389	28,344	35,881	42,487	49,905	57,857	64,954
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	127	133	134	133	133	132	132	135	135
<b>T3</b>	4000K Lumens	7,054	14,020	20,812	27,580	34,914	41,342	48,560	56,297	63,203
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	124	130	130	129	130	129	129	131	131
<b>T3R</b>	4000K Lumens	7,280	14,468	21,477	28,461	36,029	42,663	50,111	58,096	65,222
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	128	134	134	134	134	133	133	135	136
<b>T4FT</b>	4000K Lumens	7,098	14,107	20,941	27,751	35,130	41,598	48,860	56,646	63,594
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	125	131	131	130	131	130	130	132	132
<b>T4W</b>	4000K Lumens	7,119	14,148	21,003	27,832	35,233	41,720	49,004	56,812	63,781
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	125	131	131	131	131	130	130	132	133
<b>SL2</b>	4000K Lumens	7,101	14,112	20,949	27,761	35,144	41,614	48,879	56,668	63,619
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	125	131	131	130	131	130	130	132	132
<b>SL3</b>	4000K Lumens	7,051	14,013	20,802	27,566	34,897	41,321	48,535	56,269	63,172
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	124	130	130	129	130	129	129	131	131
<b>SL4</b>	4000K Lumens	6,963	13,839	20,543	27,223	34,463	40,808	47,932	55,569	62,386
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	122	128	128	128	128	127	127	130	130
<b>5NQ</b>	4000K Lumens	7,424	14,755	21,903	29,025	36,743	43,508	51,104	59,247	66,515
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	130	137	137	136	137	136	136	138	138
<b>5MQ</b>	4000K Lumens	7,461	14,828	22,012	29,169	36,926	43,725	51,359	59,542	66,846
	BUG Rating	B3-U0-G1	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	131	137	138	137	137	136	136	139	139
<b>5WQ</b>	4000K Lumens	7,445	14,797	21,966	29,108	36,849	43,633	51,250	59,417	66,705
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	131	137	137	137	137	136	136	139	139
<b>SLL/SLR</b>	4000K Lumens	6,132	12,187	18,091	23,973	30,348	35,936	42,210	48,935	54,938
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	108	113	113	113	113	112	112	114	114
<b>RW</b>	4000K Lumens	7,340	14,587	21,653	28,694	36,325	43,013	50,522	58,573	65,757
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	129	135	135	135	135	134	134	137	137
<b>AFL</b>	4000K Lumens	7,183	14,276	21,193	28,084	35,552	42,098	49,448	57,327	64,359
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4
	Lumens per Watt	126	132	132	132	132	131	131	134	134

\* Nominal data for 70 CRI. \*\* For additional performance data, please reference the Galleon Supplemental Performance Guide.

Performance Table, Drive Current "D" (1200mA)

Number of Light Squares		1	2	3	4	5	6	7	8	9
<b>Nominal Power (Watts)</b>		65	125	184	245	309	368	433	493	552
<b>Input Current @ 120V</b>		0.546	1.041	1.535	2.082	2.578	3.070	3.619	4.114	4.605
<b>Input Current @ 208V</b>		0.318	0.610	0.893	1.219	1.504	1.786	2.113	2.397	2.679
<b>Input Current @ 240V</b>		0.276	0.523	0.758	1.046	1.282	1.516	1.806	2.041	2.274
<b>Input Current @ 277V</b>		0.241	0.460	0.662	0.920	1.133	1.325	1.593	1.807	1.987
<b>Input Current @ 347V</b>		0.187	0.370	0.543	0.740	0.915	1.085	1.285	1.459	1.628
<b>Input Current @ 480V</b>		0.138	0.269	0.391	0.537	0.663	0.782	0.932	1.057	1.173
Optics										
<b>T1</b>	4000K Lumens	7,814	15,529	23,053	30,549	38,672	45,793	53,787	62,358	70,007
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	120	124	125	125	125	124	124	126	127
<b>T2</b>	4000K Lumens	7,872	15,645	23,225	30,777	38,962	46,135	54,189	62,824	70,530
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	121	125	126	126	126	125	125	127	128
<b>T2R</b>	4000K Lumens	7,977	15,854	23,535	31,188	39,482	46,751	54,913	63,663	71,472
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	123	127	128	127	128	127	127	129	129
<b>T3</b>	4000K Lumens	7,762	15,427	22,901	30,348	38,418	45,491	53,433	61,947	69,546
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	119	123	124	124	124	124	123	126	126
<b>T3R</b>	4000K Lumens	8,010	15,920	23,632	31,317	39,645	46,944	55,139	63,925	71,767
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	123	127	128	128	128	128	127	130	130
<b>T4FT</b>	4000K Lumens	7,810	15,522	23,043	30,535	38,655	45,772	53,763	62,330	69,976
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	120	124	125	125	125	124	124	126	127
<b>T4W</b>	4000K Lumens	7,833	15,568	23,110	30,625	38,769	45,907	53,921	62,513	70,182
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	121	125	126	125	125	125	125	127	127
<b>SL2</b>	4000K Lumens	7,813	15,528	23,052	30,547	38,670	45,790	53,784	62,354	70,003
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	120	124	125	125	125	124	124	126	127
<b>SL3</b>	4000K Lumens	7,758	15,419	22,889	30,332	38,398	45,468	53,406	61,916	69,511
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	119	123	124	124	124	124	123	126	126
<b>SL4</b>	4000K Lumens	7,662	15,228	22,605	29,955	37,921	44,903	52,742	61,146	68,646
	BUG Rating	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	118	122	123	122	123	122	122	124	124
<b>5NQ</b>	4000K Lumens	8,169	16,235	24,101	31,938	40,431	47,874	56,232	65,193	73,190
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	126	130	131	130	131	130	130	132	133
<b>5MQ</b>	4000K Lumens	8,210	16,316	24,221	32,097	40,632	48,113	56,512	65,517	73,554
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	126	131	132	131	131	131	131	133	133
<b>5WQ</b>	4000K Lumens	8,192	16,282	24,170	32,029	40,546	48,011	56,393	65,379	73,399
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	126	130	131	131	131	130	130	133	133
<b>SLL/SLR</b>	4000K Lumens	6,747	13,410	19,906	26,379	33,394	39,542	46,445	53,846	60,451
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	104	107	108	108	108	107	107	109	110
<b>RW</b>	4000K Lumens	8,076	16,050	23,826	31,574	39,970	47,329	55,592	64,450	72,356
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	124	128	129	129	129	129	128	131	131
<b>AFL</b>	4000K Lumens	7,904	15,709	23,320	30,902	39,120	46,323	54,410	63,079	70,817
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4
	Lumens per Watt	122	126	127	126	127	126	126	128	128

\* Nominal data for 70 CRI. \*\* For additional performance data, please reference the Galleon Supplemental Performance Guide.

## Control Options

### 0-10V (DIM)

This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

### Photocontrol (BPC, PR and PR7)

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

### After Hours Dim (AHD)

This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

### Dimming Occupancy Sensor (SPB and MS/DIM-LXX)

These passive infrared (PIR) sensors are factory installed in the luminaire housing. When the SPB (FSP-321 or FSP-311) or MS/DIM (FSP-211) sensor options are selected, the occupancy sensor is connected to a dimming driver and the luminaire dims when no motion is detected. After a set period of time, the luminaire turns off, and when motion is detected, the luminaire returns to full light output. Both sensors are factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM sensor requires the FSIR-100 programming tool to adjust factory defaults. The SPB sensor default parameters are listed in the table below and can be configured utilizing the Sensor Configuration mobile application for iOS and Android devices. The SPB/X is configured to control only the specified number of light squares (See SPB/X Availability Table below.) An integral photocontrol can be activated with the app for "dusk-to-dawn" control or daylight harvesting - the factory default is off. Four sensor colors are available; Bronze, Black, Gray and White, and are automatically selected based on the luminaire finish as indicated by the table below.

SPB sensor finish matched to luminaire finish		
Luminaire Finish		SPB Sensor Finish*
WH	White	White
BK	Black	Black
GM	Graphite Metallic	Black
BZ	Bronze	Bronze
AP	Gray	Gray
DP	Dark Platinum	Gray

\*SPB bezel color automatically selected based on luminaire finish

SPB/X Availability Table	
Fixture Square Count	Available SPB/X Square Count
1	Not Available
2	Not Available
3	Not Available
4	2
5	2 or 3
6	3
7	2, 3, 4 or 5
8	2, 3, 5 or 6
9	3 or 6

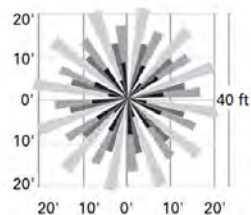
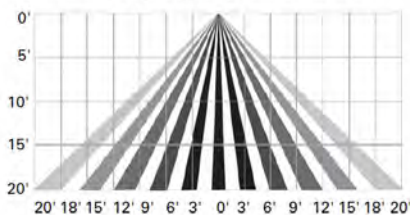
### Default Program Settings (Out of the Box Functionality)

Occupancy Sensor				
Setting	MS/DIM	SPB	WaveLinX Lite (WOF / WOB)	WaveLinX (SWPD)
High Mode %	100%	100%	100%	100%
Low Mode %	10%	10%	50%	50%
Time Delay	5 min	5 min	15 min	15 min
Cut Off Delay	1 hr	1 hr	Disabled	Disabled
Photocell Enabled	No	No	Yes	Yes

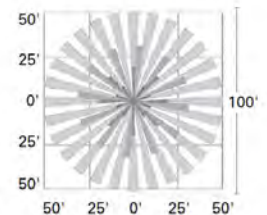
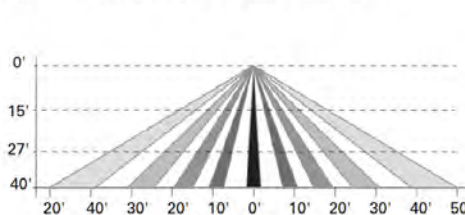
### WaveLinX Wireless Control and Monitoring System

Operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. WaveLinX and WaveLinX Lite sensors utilize the Zhaga Book 18 compliant 4-PIN receptacle (ZD or ZW), while the WOLC control module utilizes a 7-PIN receptacle. ZW option provides 4-PIN receptacle and control module to enable future installation of WaveLinX sensors. ZD option provides 4-PIN receptacle and sensor-ready (SR) driver to enable future installation of WaveLinX sensors, power monitoring, and advanced functionality. WaveLinX (SWPD4 to SWPD5) outdoor wireless sensors offer passive infrared (PIR) occupancy and photocell for closed loop daylight harvesting, and can be factory or field-installed. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinX mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets). WaveLinX Lite (WOF and WOB) outdoor wireless sensors provide PIR occupancy and photocell for closed loop daylight harvesting, and can be factory or field-installed. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinX Lite mobile application for set-up and configuration. WAC not required. WaveLinX Outdoor Control Module (WOLC-7P-10A) accessory provides a photocontrol enabling astronomic or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

#### For mounting heights up to 15' (SWPD4 and WOB)



#### For mounting heights up to 40' (SWPD5 and WOF)



### LumenSafe Integrated Network Security Camera (LD)

Cooper Lighting Solutions brings ease of camera deployment to a whole new level. No additional wiring is needed beyond providing line power to the luminaire. A variety of networking options allows security integrators to design the optimal solution for active surveillance. As the ideal solution to meet the needs for active surveillance, the LumenSafe integrated network camera is a streamlined, outdoor-ready fixed dome that provides HDTV 1080p video. This IP camera is optimally designed for deployment in the video management system or security software platform of choice.

### Synapse (DIM10)

SimplySNAP integrated wireless controls system by Synapse. Includes factory installed DIM10 Synapse control module and FSP-201 motion sensor; requires additional Synapse system components for operation. Contact Synapse at [www.synapsewireless.com](http://www.synapsewireless.com) for product support, warranty and terms and conditions.

Project		Catalog #		Type	
Prepared by		Notes		Date	



# McGraw-Edison

## GWC Galleon Wall

Wall Mount Luminaire

### Product Features



### Product Certifications



### Interactive Menu

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

### Quick Facts

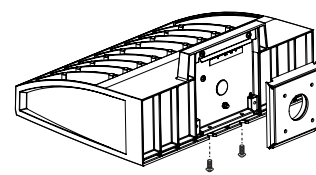
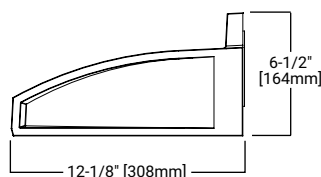
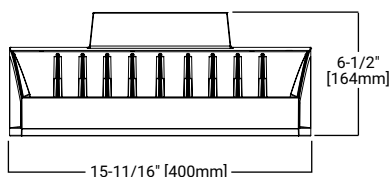
- Choice of thirteen high-efficiency, patented AccuLED Optics
- Downward and inverted wall mounting configurations
- Eight lumen packages from 3,215 up to 17,056
- Efficacies up to 154 lumens per watt

### Connected Systems

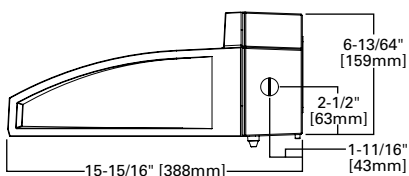
- WaveLinX
- Enlighted

### Dimensional Details

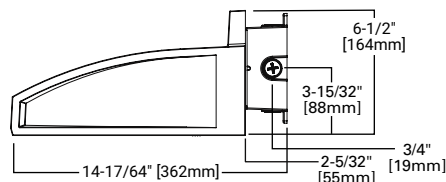
Net Weight: 17.0 lbs (7.7 kgs)



**GWC with CBP option installed**  
(Thru-Branch Back Box accessory MA1059XX)



**GWC with accessory BB/GWCXX Back Box installed**



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

Ordering Information

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

Product Family <sup>1</sup>	Light Engine		Color Temperature	Voltage	Distribution	Finish
	Configuration	Drive Current				
<b>GWC</b> =Galleon Wall <b>BAA-GWC</b> =Galleon Wall, Buy American Act Compliant <sup>35</sup> <b>TAA-GWC</b> =Galleon Wall, Trade Agreements Act Compliant <sup>35</sup>	<b>SA1</b> =1 Square <b>SA2</b> =2 Squares <sup>2</sup>	<b>A</b> =615mA <b>B</b> =800mA <b>C</b> =1000mA <b>D</b> =1200mA <sup>4</sup> <b>Z</b> =Configured <sup>41</sup>	<b>722</b> =70CRI, 2200K <b>727</b> =70CRI, 2700K <b>730</b> =70CRI, 3000K <b>735</b> =70CRI, 3500K <b>740</b> =70CRI, 4000K <b>750</b> =70CRI, 5000K <b>760</b> =70CRI, 6000K <b>827</b> =80CRI, 2700K <b>830</b> =80CRI, 3000K <b>AMB</b> =Amber, 590nm <sup>3,4</sup>	<b>U</b> =120-277V <b>1</b> =120V <b>2</b> =208V <b>3</b> =240V <b>4</b> =277V <b>8</b> =480V <sup>6,7</sup> <b>9</b> =347V <sup>6</sup> <b>DV</b> =277-480V DuraVolt Drivers <sup>7,8,37</sup>	<b>T2</b> =Type II <b>T3</b> =Type III <b>T4F</b> =Type IV Forward Throw <b>T4W</b> =Type IV Wide <b>SL2</b> =Type II w/Spill Control <b>SL3</b> =Type III w/Spill Control <b>SL4</b> =Type IV w/Spill Control <b>SL</b> =90° Spill Light Eliminator Left <b>SLR</b> =90° Spill Light Eliminator Right <b>RW</b> =Rectangular Wide Type I <b>5NQ</b> =Type V Square Narrow <b>5MQ</b> =Type V Square Medium <b>5WQ</b> =Type V Square Wide	<b>AP</b> =Grey <b>BZ</b> =Bronze <b>BK</b> =Black <b>DP</b> =Dark Platinum <b>GM</b> =Graphite Metallic <b>WH</b> =White
Options (Add as Suffix)		Controls and Systems Options (Add as Suffix)		Accessories (Order Separately) <sup>36</sup>		
<b>F</b> =Single Fused (120, 277 or 347V. Must Specify Voltage) <b>FF</b> =Double Fused (208, 240 or 480V. Must Specify Voltage) <b>10K</b> =10kV Surge Module <b>20K</b> =Series 20kV UL 1449 Surge Protective Device <b>2L</b> =Two-Circuit Light Engine <sup>38</sup> <b>DIM</b> =External 0-10V Dimming Leads <sup>9,10</sup> <b>CBP</b> =Battery Pack with Back Box, Cold Weather Rated <sup>2,4,14,33</sup> <b>CBP-CEC</b> =Battery Pack with Back Box, Cold Weather Rated, CEC compliant <sup>2,4,14</sup> <b>BB</b> =Shipped with Back Box Accessory <sup>39</sup> <b>L90</b> =Optics Rotated 90° Left <b>R90</b> =Optics Rotated 90° Right <b>HSS</b> =Factory Installed House Side Shield <sup>23</sup> <b>GRSBK</b> =Factory Installed Glare Shield, BK <sup>4,27</sup> <b>GRSWH</b> =Factory Installed Glare Shield, WH <sup>4,27</sup> <b>UPL</b> =Uplight Housing <sup>15</sup> <b>HA</b> =50°C High Ambient <sup>12</sup> <b>LCF</b> =Light Square Trim Plate Painted to Match Housing <sup>22</sup> <b>MT</b> =Factory Installed Mesh Top <b>CC</b> =Coastal Construction finish <sup>5</sup> <b>CE</b> =CE Marking and Small Terminal Block <sup>24</sup> <b>AHD145</b> =After Hours Dim, 5 Hours <sup>16</sup> <b>AHD245</b> =After Hours Dim, 6 Hours <sup>16</sup> <b>AHD255</b> =After Hours Dim, 7 Hours <sup>16</sup> <b>AHD355</b> =After Hours Dim, 8 Hours <sup>16</sup> <b>DALI</b> =DALI Driver <sup>11</sup>		<b>BPC</b> =Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) <b>PR</b> =NEMA 3-PIN Twistlock Photocontrol Receptacle <b>PR7</b> =NEMA 7-PIN Twistlock Photocontrol Receptacle <sup>15</sup> <b>FADC</b> =Field Adjustable Dimming Controller <sup>49</sup> <b>SPB1</b> =Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting <sup>19,34</sup> <b>SPB2</b> =Dimming Occupancy Sensor with Bluetooth Interface, 8' - 20' Mounting <sup>19,34</sup> <b>SPB4</b> =Dimming Occupancy Sensor with Bluetooth Interface, 21' - 40' Mounting <sup>19,34</sup> <b>MS-LXX</b> =Motion Sensor for On/Off Operation <sup>17,18,19</sup> <b>MS/DIM-LXX</b> =Motion Sensor for Dimming Operation <sup>17,18,19</sup> <b>ZW</b> =WaveLinX-enabled 4-PIN Twistlock Receptacle <sup>29,30</sup> <b>ZD</b> =WaveLinX Module with DALI driver and 4-PIN Receptacle <sup>29,30</sup> <b>SWPD4XX</b> =WaveLinX Sensor Only, 7'-15' <sup>31,32</sup> <b>SWPD5XX</b> =WaveLinX Sensor Only, 15'-40' <sup>31,32</sup> <b>WOBXX</b> =WaveLinX Sensor with Bluetooth, 7'-15' <sup>31,32</sup> <b>WOFXX</b> =WaveLinX Sensor with Bluetooth, 15'-40' <sup>31,32</sup> <b>LWR-LW</b> =Enlighted Wireless Sensor, Wide Lens for 8'-16' Mounting Height <sup>19,20,21</sup> <b>LWR-LN</b> =Enlighted Wireless Sensor, Narrow Lens for 16'-40' Mounting Height <sup>19,20,21</sup>		<b>OA/RA1013</b> =Photocontrol Shorting Cap <b>OA/RA1016</b> =NEMA Photocontrol - Multi-Tap 105-285V <b>OA/RA1201</b> =NEMA Photocontrol - 347V <b>OA/RA1027</b> =NEMA Photocontrol - 480V <b>MA1252</b> =10kV Circuit Module Replacement <b>MA1059XX</b> =Thru-branch Back Box (Must Specify Color) <b>BB/GWCXX</b> =Back Box (Must Specify Color) <b>LS/HSS</b> =Field Installed House Side Shield <sup>23,25</sup> <b>LS/GRSBK-2PK</b> =Glare Shield, Black <sup>25,27</sup> <b>LS/GRSWH-2PK</b> =Glare Shield, White <sup>25,27</sup> <b>LS/PFS</b> =Perimeter Shield, Black <sup>28</sup> <b>FSIR-100</b> =Wireless Configuration Tool for Occupancy Sensor <sup>17</sup> <b>WOLC-7P-10A</b> =WaveLinX Outdoor Control Module (7-pin) <sup>26,29</sup> <b>SWPD4-XX</b> =WaveLinX Wireless Sensor, 7' - 15' Mounting Height <sup>29,30,31,32</sup> <b>SWPD5-XX</b> =WaveLinX Wireless Sensor, 15' - 40' Mounting Height <sup>29,30,31,32</sup>		
<b>NOTES:</b> 1. DesignLight Consortium® Qualified. Refer to www.designlights.org, Qualified Products List under Family Models for details. 2. Two light squares with CBP options limited to 25°C. CBP not available in combination with sensor options at 1200mA. 3. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Exact luminaire wattage available in IES files. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option. 4. Not available with HA option. 5. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 6. Require the use of a step down transformer. Not available in combination with sensor options at 1200mA. 7. 480V not to be used with ungrounded or impedance grounded systems. 8. DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit <a href="http://www.signify.com/duravolt">www.signify.com/duravolt</a> for more information. 9. Cannot be used with other control options. 10. Low voltage control leads extended 18" from fixture. 11. Not available in 1200mA. When used with CBP or HA options, only available with single light square. 12. Not available in 1200mA, UPL or CBP options. Available with single light square. 13. Not available with SL2, SL3, SL4, HA, CBP, PR or PR7 options. 14. Operates a single light square only. Operates at -20°C to +40°C. Backbox is non-IP rated. 15. Compatible with standard 3-PIN photocontrols, 5-PIN or 7-PIN ANSI controls. 16. 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. 17. 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. 18. Replace LXX with L08 (<8' mounting), L20 (8'-20' mounting) or L40W (21'-40' mounting). 19. Includes integral photosensor. 20. Enlighted wireless sensors are factory installed requiring network components in appropriate quantities. 21. White sensor shipped on all housing color options. 22. Not available with HSS or GRS options. 23. Not for use with 5NQ, 5MQ, 5WQ or RW optics. The light square trim plate is painted black when the HSS option is selected. 24. CE is not available with the 1200, DALI, LWR, MS, MS/DIM, BPC, PR or PR7 options. Available in 120-277V only. 25. One required for each light square. 26. Requires PR7. 27. Not for use with T4FT, T4W or SL4 optics. 28. Set of 4 pcs. Once set required per Light Square. 29. Cannot be used in conjunction with additional photocontrol or other controls systems (BPC, PR, PR7, MS, LWR). 30. WAC Gateway required to enable field-configurability. Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed. 31. Requires ZW or ZD receptacle. 32. Replace XX with sensor color (WH, BZ, or BK). 33. Specify 120V or 277V. 34. Smart device with mobile application required to change system defaults. See controls section for details. 35. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to <a href="http://www.designlights.org">DOMESTIC PREFERENCES</a> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 36. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 37. Not available in 1 square configuration at 800mA or below. Not available with any control option except SPB. 38. 2L not available with FF, AHD or DALI options. Controls and/or battery packs operate only one of the two circuits when 2L is specified. 2L with controls options not available with 347V or 480V. 39. Not available with CBP or CBP-CEC options. 40. Cannot be used with PR7 or other motion response control options. 41. Customer specific specifications utilizes standard products with small adjustments to meet unique requirements such as packaging, labels, wattage adjustments, etc.						

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 -40°C to 40°C ambient environments; Optional 50°C 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

Typical Applications

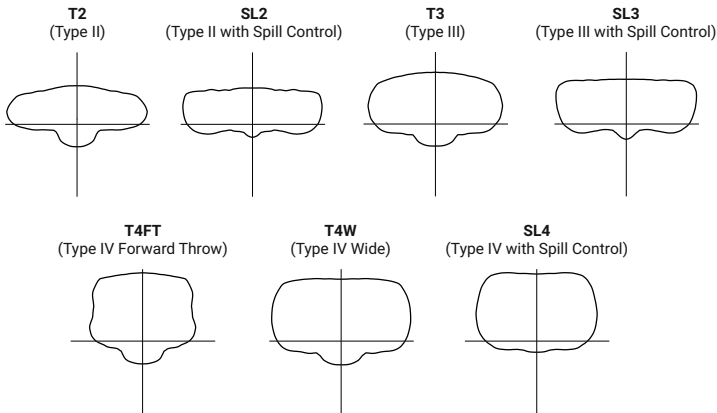
- Exterior Wall, Walkway

Warranty

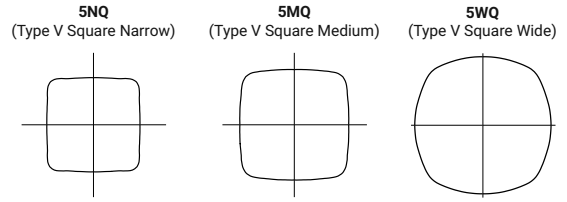
- Five-year warranty

### Optical Distributions

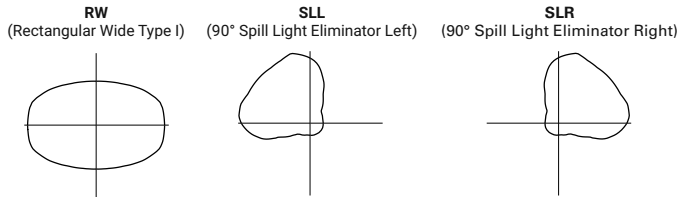
Asymmetric Area Distributions



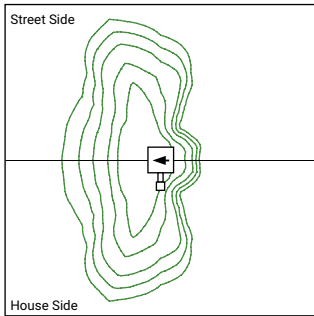
Symmetric Distributions



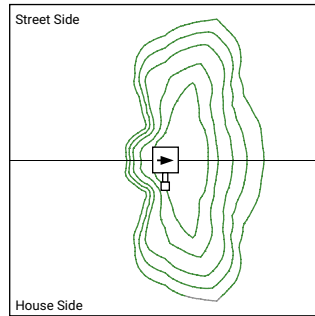
Specialized Distributions



### Optic Orientation



Optics Rotated Left @ 90° [L90]



Optics Rotated Right @ 90° [R90]

### Energy and Performance Data

Lumen Multiplier

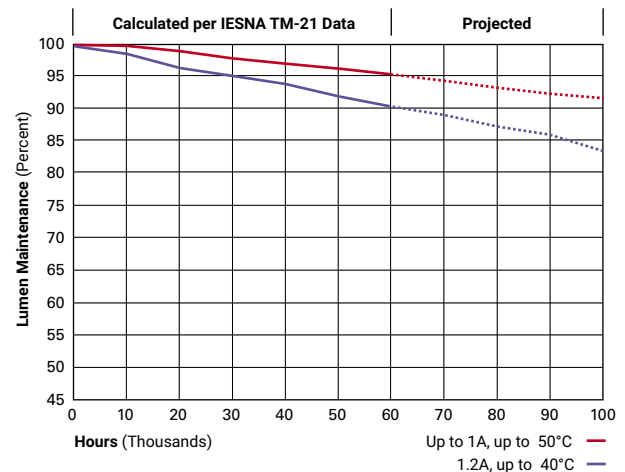
Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

FADC Settings

FADC Position	Lumen Multiplier
1	25%
2	46%
3	55%
4	62%
5	72%
6	77%
7	82%
8	85%
9	90%
10	100%

Lumen Maintenance

Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Projected L70 (Hours)
Up to 1A	Up to 50°C	> 95%	> 416,000
1.2A	Up to 40°C	> 90%	> 205,000



Energy and Performance Data

 View GWC Galleon Wall IES files

4000K/5000K/6000K CCT, 70 CRI

Number of Light Squares		1				2			
<b>Drive Current</b>		615mA	800mA	1050mA	1.2A	615mA	800mA	1050mA	1.2A
<b>Nominal Power (Watts)</b>		34	44	59	67	66	86	113	129
<b>Input Current @ 120V (A)</b>		0.30	0.39	0.51	0.58	0.58	0.77	1.02	1.16
<b>Input Current @ 208V (A)</b>		0.17	0.22	0.29	0.33	0.34	0.44	0.56	0.63
<b>Input Current @ 240V (A)</b>		0.15	0.19	0.26	0.29	0.30	0.38	0.48	0.55
<b>Input Current @ 277V (A)</b>		0.14	0.17	0.23	0.25	0.28	0.36	0.42	0.48
<b>Input Current @ 347V (A)</b>		0.11	0.15	0.17	0.20	0.19	0.24	0.32	0.39
<b>Input Current @ 480V (A)</b>		0.08	0.11	0.14	0.15	0.15	0.18	0.24	0.30
<b>Optics</b>									
<b>T2</b>	Lumens	4,883	5,989	7,412	8,131	9,543	11,703	14,485	15,891
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3
	Lumens per Watt	144	136	126	121	145	136	128	123
<b>T3</b>	Lumens	4,978	6,105	7,556	8,288	9,729	11,929	14,764	16,196
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3
	Lumens per Watt	146	139	128	124	147	139	131	126
<b>T4FT</b>	Lumens	5,008	6,140	7,599	8,337	9,783	11,998	14,850	16,290
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	147	140	129	124	148	140	131	126
<b>T4W</b>	Lumens	4,942	6,060	7,502	8,229	9,658	11,843	14,658	16,080
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3
	Lumens per Watt	145	138	127	123	146	138	130	125
<b>SL2</b>	Lumens	4,874	5,979	7,399	8,117	9,528	11,684	14,461	15,863
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G3
	Lumens per Watt	143	136	125	121	144	136	128	123
<b>SL3</b>	Lumens	4,976	6,104	7,555	8,287	9,727	11,927	14,763	16,194
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	146	139	128	124	147	139	131	126
<b>SL4</b>	Lumens	4,729	5,799	7,178	7,873	9,239	11,333	14,025	15,387
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4
	Lumens per Watt	139	132	122	118	140	132	124	119
<b>5NQ</b>	Lumens	5,134	6,296	7,793	8,547	10,033	12,303	15,226	16,704
	BUG Rating	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2
	Lumens per Watt	151	143	132	128	152	143	135	129
<b>5MQ</b>	Lumens	5,228	6,412	7,935	8,705	10,216	12,529	15,508	17,011
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	154	146	134	130	155	146	137	132
<b>5WQ</b>	Lumens	5,242	6,428	7,956	8,728	10,244	12,563	15,548	17,056
	BUG Rating	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	154	146	135	130	155	146	138	132
<b>SLL/SLR</b>	Lumens	4,373	5,365	6,640	7,283	8,547	10,481	12,973	14,231
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	129	122	113	109	130	122	115	110
<b>RW</b>	Lumens	5,087	6,238	7,721	8,472	9,941	12,190	15,088	16,553
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	150	142	131	126	151	142	134	128

\* Nominal lumen data for 70 CRI. BUG rating for 4000K/5000K. Refer to IES files for 3000K BUG ratings.

3000K CCT, 80 CRI

Number of Light Squares		1				2			
<b>Drive Current</b>		615mA	800mA	1050mA	1.2A	615mA	800mA	1050mA	1.2A
<b>Nominal Power (Watts)</b>		34	44	59	67	66	86	113	129
<b>Input Current @ 120V (A)</b>		0.30	0.39	0.51	0.58	0.58	0.77	1.02	1.16
<b>Input Current @ 208V (A)</b>		0.17	0.22	0.29	0.33	0.34	0.44	0.56	0.63
<b>Input Current @ 240V (A)</b>		0.15	0.19	0.26	0.29	0.30	0.38	0.48	0.55
<b>Input Current @ 277V (A)</b>		0.14	0.17	0.23	0.25	0.28	0.36	0.42	0.48
<b>Input Current @ 347V (A)</b>		0.11	0.15	0.17	0.20	0.19	0.24	0.32	0.39
<b>Input Current @ 480V (A)</b>		0.08	0.11	0.14	0.15	0.15	0.18	0.24	0.30
<b>Optics</b>									
<b>T2</b>	<b>Lumens</b>	3,880	4,759	5,890	6,461	7,583	9,300	11,510	12,628
	<b>BUG Rating</b>	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3
	<b>Lumens per Watt</b>	114	108	100	96	115	108	102	98
<b>T3</b>	<b>Lumens</b>	3,956	4,851	6,004	6,586	7,731	9,479	11,732	12,870
	<b>BUG Rating</b>	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
	<b>Lumens per Watt</b>	116	110	102	98	117	110	104	100
<b>T4FT</b>	<b>Lumens</b>	3,980	4,879	6,038	6,625	7,774	9,534	11,800	12,945
	<b>BUG Rating</b>	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	<b>Lumens per Watt</b>	117	111	102	99	118	111	104	100
<b>T4W</b>	<b>Lumens</b>	3,927	4,816	5,961	6,539	7,675	9,411	11,648	12,778
	<b>BUG Rating</b>	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3
	<b>Lumens per Watt</b>	116	109	101	98	116	109	103	99
<b>SL2</b>	<b>Lumens</b>	3,873	4,751	5,880	6,450	7,571	9,285	11,491	12,605
	<b>BUG Rating</b>	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	<b>Lumens per Watt</b>	114	108	100	96	115	108	102	98
<b>SL3</b>	<b>Lumens</b>	3,954	4,851	6,004	6,585	7,729	9,478	11,731	12,868
	<b>BUG Rating</b>	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3
	<b>Lumens per Watt</b>	116	110	102	98	117	110	104	100
<b>SL4</b>	<b>Lumens</b>	3,758	4,608	5,704	6,256	7,342	9,006	11,145	12,227
	<b>BUG Rating</b>	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B1-U0-G3	B1-U0-G3
	<b>Lumens per Watt</b>	111	105	97	93	111	105	99	95
<b>5NQ</b>	<b>Lumens</b>	4,080	5,003	6,193	6,792	7,973	9,776	12,099	13,274
	<b>BUG Rating</b>	B2-U0-G0	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2
	<b>Lumens per Watt</b>	120	114	105	101	121	114	107	103
<b>5MQ</b>	<b>Lumens</b>	4,154	5,095	6,305	6,917	8,118	9,956	12,323	13,518
	<b>BUG Rating</b>	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2
	<b>Lumens per Watt</b>	122	116	107	103	123	116	109	105
<b>5WQ</b>	<b>Lumens</b>	4,166	5,108	6,322	6,936	8,140	9,983	12,355	13,553
	<b>BUG Rating</b>	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
	<b>Lumens per Watt</b>	123	116	107	104	123	116	109	105
<b>SLL/SLR</b>	<b>Lumens</b>	3,475	4,263	5,276	5,787	6,792	8,329	10,309	11,309
	<b>BUG Rating</b>	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3
	<b>Lumens per Watt</b>	102	97	89	86	103	97	91	88
<b>RW</b>	<b>Lumens</b>	4,042	4,957	6,135	6,732	7,900	9,687	11,990	13,154
	<b>BUG Rating</b>	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2
	<b>Lumens per Watt</b>	119	113	104	100	120	113	106	102

\* Nominal lumen data for 70 CRI. BUG rating for 4000K/5000K. Refer to IES files for 3000K BUG ratings.



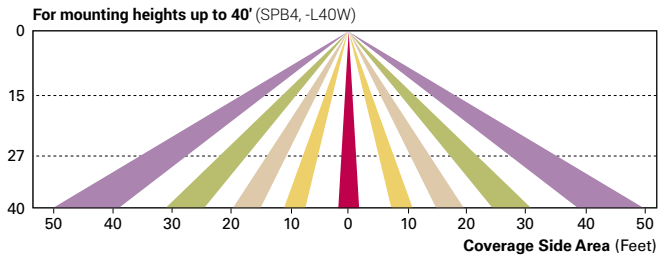
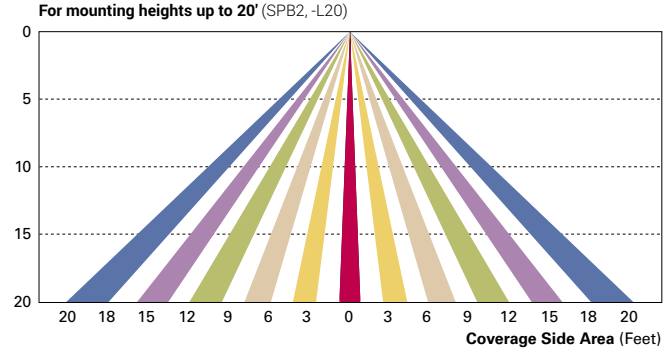
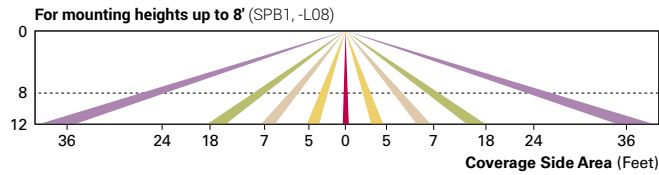
**Control Options**

**0-10V** This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

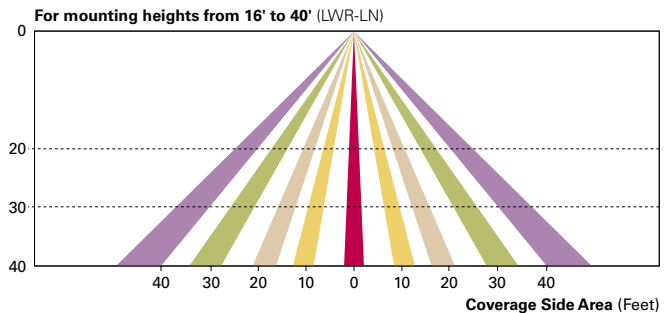
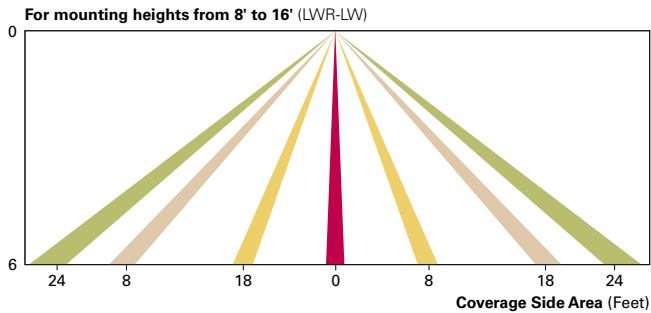
**Photocontrol** (BPC, PR, and PR7) Optional button-type photocontrol (BPC) and photocontrol receptacles (PR and PR7) provide a flexible solution to enable “dusk-to-dawn” lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PR7 receptacle.

**After Hours Dim (AHD)** This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a “dusk-to-dawn” period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

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



**Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN)** The Enlighted control system is a connected lighting solution, combining LED luminaires with an integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes while collecting valuable data about building performance and use. Software applications utilizing energy dashboards maximize data inputs to help optimize the use of other resources beyond lighting.



**WaveLinx Wireless Outdoor Lighting Control Module (WOLC-7P-10A)** The 7-pin wireless outdoor lighting control module enables WaveLinx to control outdoor area, site and flood lighting. WaveLinx controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.