IV. A.

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

Architectural Review Board Staff Report

Project Type: Site Development Section Plan

Meeting Date: August 9, 2018

From: Andrew Stanislav
Planner

Location: North of Edison Avenue just east of its intersection with N Bell Avenue and approximately 700 feet west of its intersection with Spirit of St. Louis Boulevard.

Applicant: Stock and Associates Consulting Engineers, Inc.

Description: **Spirit of St. Louis Airpark, Lot 19 (AVMATS Hangar):** A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 4.93 acre leasehold area within a 9.45 acre tract of land zoned "M-3" Planned Industrial District located north of Edison Avenue just east of its intersection with N Bell Avenue and approximately 700 feet west of its intersection with Spirit of St. Louis Boulevard.

PROPOSAL SUMMARY

The request is for a 45,000 square foot office/warehouse and hangar facility located on the north side of Edison Avenue just east of its intersection with N Bell Avenue. The majority of the proposed facility will contain hangar space (35,133 square feet) with the remainder of the building serving as warehouse and office spaces. The subject site is zoned "M-3" Planned Industrial District and is governed under the terms and conditions of City of Chesterfield Ordinance Number 1430. The exterior building materials will primarily consist of metal wall panels painted fox gray. Ground mounted mechanical equipment screening and a trash enclosure will be six-feet in height and match the color of the building's metal panel façade.

HISTORY OF SUBJECT SITE

St. Louis County approved a rezoning from an "NU" Non-Urban District to an "M-3" Planned Industrial District for Spirit of St. Louis Airport via Ordinance 2,212 prior to the incorporation of the City of Chesterfield. The ordinance was subsequently amended by St. Louis County Ordinances

9,642, 11,768, 13,838, and 13,935 and City of Chesterfield Ordinances 656, 870, 1156, 1312, and 1378.

The ordinance amendments were to allow for additional uses, amend setbacks, and amend the boundaries of the "M3" Planned Industrial District. The current ordinance governing the site is City of Chesterfield Ordinance 1430.

The subject site has never been developed.

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

STAFF ANALYSIS

General Requirements for Site Design:

The subject site is located on the north side of Edison Avenue approximately 700 feet west of Spirt of St. Louis Boulevard and is surrounded by other similar uses within the airport context. Additionally, the proposed building uses similar materials and design as other buildings constructed in the area.

The location of the proposed building is directly adjacent to the airport taxiways and the building entrance is facing the frontage along Edison Avenue. The west and north elevations are facing inward towards the airport taxiways and runways, and the east elevation faces the rear of existing developments along Spirit of St. Louis Boulevard. Given this orientation, the south and west elevations of the building will be most visible when traveling along Edison Avenue.

Figure 2: Color Site Development Section Plan

Circulation System and Access

The subject site will be served by a single access drive from Edison Avenue along the southern portion of the site, which provides access to all 38 parking spaces. A tarmac is provided at the rear of the building for access to the taxiway, and restricted vehicular access to the taxiway will also be available along the western portion of the parking area by passing through an electric gate within the relocated fence. The proposed trash enclosure caps the opposite end of the parking area to the east. Access to the taxiway is governed by the Spirit of St. Louis Airport, and the applicant will be required to provide the necessary authorizations for the scope of work presented. Pedestrian access from off-site areas is not provided as part of this project and is very limited on-site due to the nature of the proposed use and proximity to the taxiway.

Topography and Parking

The site is generally flat with approximately one to two feet of grade change across the property. Swales will be located to the north, south, and west of the improved area for storm water management. All proposed parking is located on the southern portion of the site between the front of the building and Edison Avenue. Two ADA parking spaces are located near the building's main entrance

General Requirements for Building Design:

This request is to allow for the development of a 45,000 square foot office/warehouse and hangar facility to provide aerospace support services on the property. The facility will be 45'-3.5" in height at its highest point and will primarily contain space for an aircraft hangar with accessory warehouse and office spaces of approximately 5,400 square feet and 4,500 square feet, respectively.

A. Scale

The proposed building is 45'-3.5" in height at its highest point to the east which gradually rises in height from the 38-foot tall western portion of the hangar roof. The office/warehouse areas are along the western side of the building. The roof over this portion of the building mimics the gradual incline of the hangar roof, beginning at a height of 16 feet along the western exterior wall and rising to a height of 18'-1"along the shared wall that divides these spaces from the larger hangar. The scale of the facility is conducive to functioning as a hangar, with interior height providing for the capacity to function for the proposed use. The height of the office/warehouse space is lower in height to more appropriately scale the intended use and visually separate this portion from the larger hangar space. The architect has placed blue-tinted windows, (to match the tint of those of the office space storefront) along the east, west, and south facades "to provide natural lighting into the hangar as well as articulation of the building façade." The entry canopy structure is also intended to provide a more human scale element to the building. The subject property is adjacent to other hangars across the taxiway to the west, taxiway and open space to the north, hangar and industrial buildings to the south, and industrial warehouse/office buildings to the east along Spirit of St. Louis Boulevard.

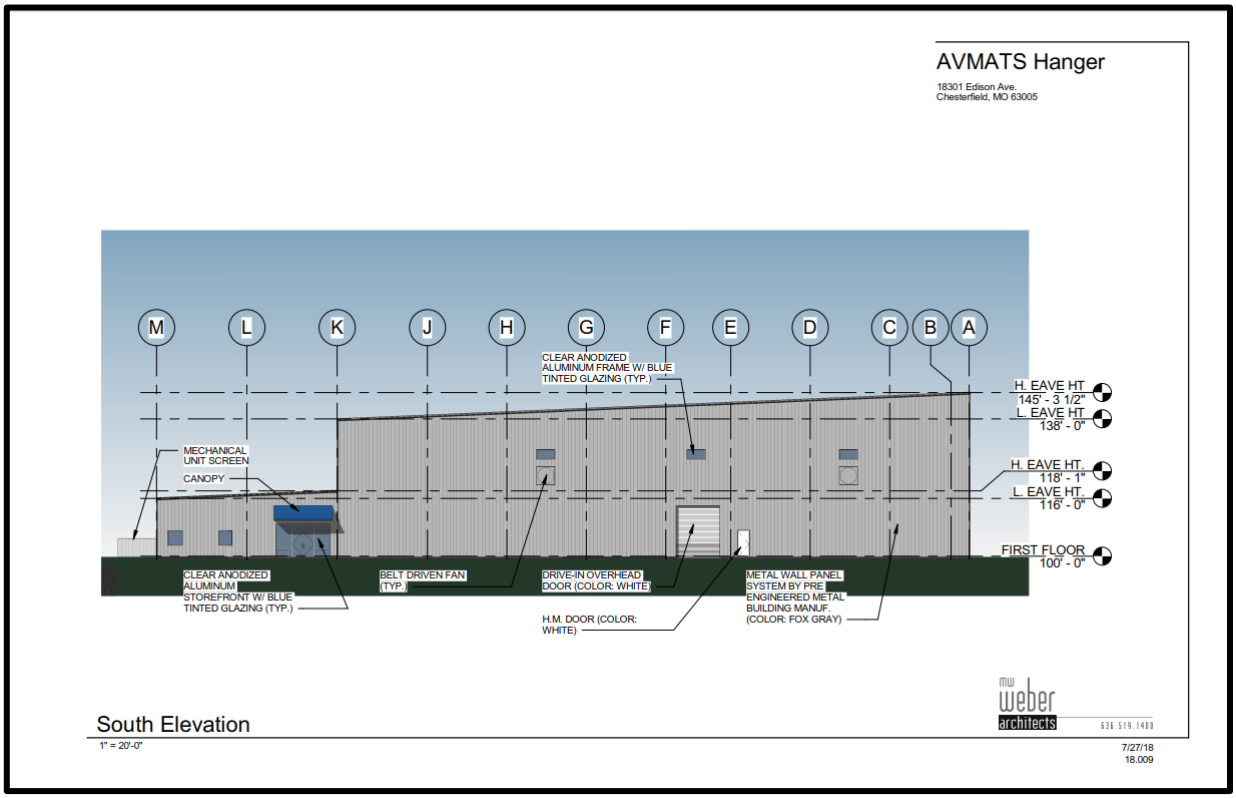


Figure 3: South exterior elevation

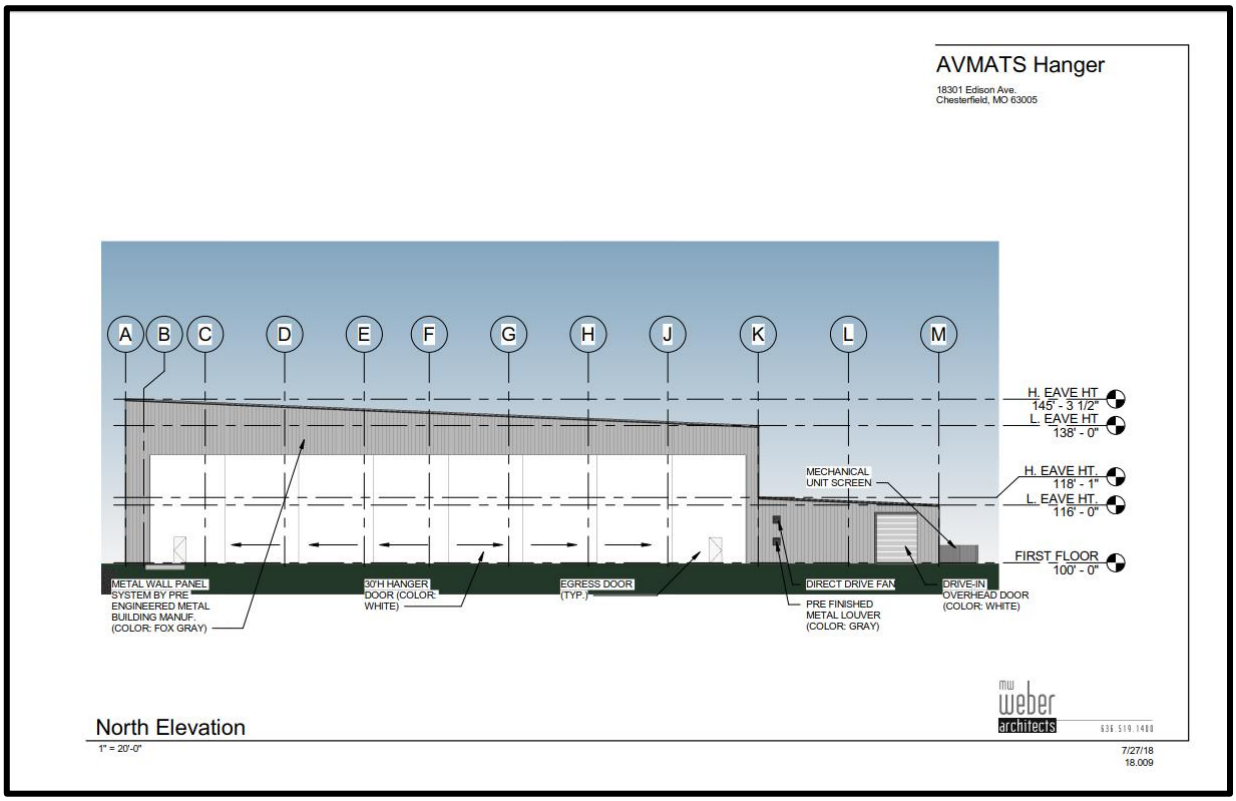


Figure 4: North exterior elevation

B. Design

The main envelope structure of the building is a ribbed metal wall panel painted fox gray, along with a white standing seam metal roof, produced by a pre-engineered metal building manufacturer. The same building material is used on all four sides of the building. Facing south, the front façade consists of a blue canopy over the storefront of the office space to accentuate and protect the entry area. The storefront system will be a clear anodized aluminum with blue tinted glazing. This tint design will be incorporated among the remaining windows on this elevation placed on both the office space and hangar portions of the building, as well as the windows proposed on the west and east elevations. All doors on the building (hollow metal doors, 30-foot tall hangar doors, and overhead doors), with the exception of the glass storefront, are proposed in white color as to contrast the fox gray metal panel exterior material. The gutter, downspouts, and trim will match the building's exterior.

Figure 5: Proposed rendering view looking northeast from across Edison Avenue

C. Materials and Color

The exterior building materials will primarily consist of fox gray ribbed metal panels, white entry and utility doors (except the storefront doors), and clear anodized aluminum framed windows with blue tinted glazing.

D. Landscape Design and Screening

Several different areas of landscaping are proposed for the site, including parking lot landscaping, a landscape buffer, and street trees along the site's frontage. A landscape buffer is depicted along the western portion of the parking area between Edison Avenue.

Screening systems for the ground-mounted mechanical units and the trash enclosure are proposed to match the building's fox gray color. The ground-mounted units adjacent to the building will be screened with a six-foot tall metal panel material on all three exposed sides to match the building, while the trash enclosure will consist of a six-foot screen of split face CMU and prefinished metal coping cap with composite or white vinyl swinging gates.

E. Signage

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

F. Lighting

Lighting is planned in association with the proposed development as required by the City of Chesterfield. The proposed lighting plan consists of utilitarian lighting for the parking area as well as general site illumination to navigate the site. Two wall-mounted light fixtures are proposed on each of the four façades.

DEPARTMENT INPUT

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

Staff requests review and recommendation on this submittal for Spirit of St. Louis Airpark, Lot 19 (AVMATS Hangar).

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 Spirit of St. Louis Airpark, Lot 19 (AVMATS Hangar), 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 Spirit of St. Louis Airpark, Lot 19 (AVMATS Hangar) to the Planning Commission with the following recommendations…"

Attachments

1. Architectural Review Packet Submittal

ARCHITECTURAL REVIEW BOARD
Project Statistics and Checklist

Date of First Comment Letter Received from the City of Chesterfield 7/27/18

Project Title: AVSMATS Hangar **Location:** 18301 Edison Ave

Developer: Centurion Investment Inc. **Architect:** mw Weber Architects **Engineer:** Stock Associates

PROJECT STATISTICS:

Size of site (in acres): 4.9 **Total Square Footage:** 45,000 **Building Height:** 44'-3 1/2"

Proposed Usage: Aerospace support service (Office/Warehouse/Hangar)

Exterior Building Materials: Ribbed Metal Panel

Roof Material & Design: Standing Seam Roof

Screening Material & Design: Ribbed Metal Panel &

Description of art or architecturally significant features (if any):

ADDITIONAL PROJECT INFORMATION:

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

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

mw weber architects

July 27, 2017

Architectural Review Board
City of Chesterfield
Department of Planning
690 Chesterfield Parkway West
Chesterfield, MO 63017-0760

Re: Architect's Statement
AVSMATS Hangar

Dear members of the Architectural Review Board,
The following is the Architect's Statement for the AVSMATS Hangar, located at 18301 Edison Ave.

The Site:

Physical features and Access:
The 4.9 acre leasehold area will contain a one story, 45,000 square foot building planned for an office/warehouse and hangar. To the West of the proposed site are existing hangars and to the East are existing office/warehouse buildings which fronts Spirit of St. Louis Blvd. Site access for the proposed building will be located on Edison Avenue. The site has very little to no slope with no existing trees or shrubs. The adjacent properties to the west have very few trees or shrubs.

Site Relationship & Circulation:
The site which is accessed off of Edison Avenue which contains parking in the front and a tarmac at the rear of the building for access to the taxi runways. Landscaping will be located at the South elevation for a buffer zone from the street view. Mechanical equipment will be located on the west side elevation of the building but will be screened with a 6' high metal panels to match the proposed building materials. The trash dumpster will also be screened with a painted 6' high split face CMU and prefinished metal coping cap with composite or white vinyl swinging gates which is located on the east side of the front parking lot.

Topography & Retaining walls:
The natural topography is relatively level and will not require any retaining walls. Swales will be located to the north, west, and south for storm water management. We are following Spirit of St. Louis Airport regulations for bio retention requirements.

The Building:

Materials:
The materials on the building include one color for the ribbed metal panels, one color for all hollow metal doors, hangar doors, and overhead doors, one color standing seam metal roof, clear aluminum storefront windows with bluish tinted glazing. The gutter, downspouts and trim will match the metal panels of the building. The entry canopy will complement the bluish tinted windows and the logo for the company.

Scale & Design:
The one story building is appropriately scaled to the few buildings that are located near the proposed property and matches the architecture of the buildings that are located to the West and South of the site. In order to break down the scale of the building, the office/warehouse component has been brought down to a lower eave height. Windows were located on the South and East elevation of the hangar to provide natural lighting into the hangar as well as articulation to the building facade. The building is further broken down to a human scale with a simple lower entry canopy. The building's simple look is complimentary but not overwhelming to the existing AVSMATS Jet Support main headquarters which is located less than a quarter mile West of the proposed site.

Landscape design and screening:
The required number of trees and shrubs has been provided and, along the street frontage, have been located to provide shade at strategic points while also allowing "view corridors" into the site and an aesthetically pleasing buffer between the building and the street.

The plant palette, designed for low maintenance, has been selected from Chesterfield's list of approved trees. The chosen plants also provide pollinators and seasonal color & texture throughout the site as designed by the landscape architect.

Signage:
Signage shall be designated high on the North and South sides of the hangar. Address signage shall consist of individual numbers on the glass transom above the entry doors.

Lighting standards:
The building, tarmac, and parking areas will be illuminated by full cutoff, low profile, LED wall mounted fixtures and equipped with house side shields where located at property lines to minimize glare and light trespass. The fixtures will be mounted at 30' A.F.F. on the hangar and approximately 13' A.F.F. at the office/warehouse component. Foot candles are 0.0 minimum and 4.9 average. Maximum foot candles at the property lines are at 1.2 or below with most areas at 0.0. Average foot candles at all building entry are approximately 1.3.

Sincerely,
mw Weber Architects

Tonny Jun
Project Manager

AVMATS Hanger

18301 Edison Ave.
Chesterfield, MO 63005

Perspective

mw weber architects
636.519.1400

7/27/18
18.009

AVMATS Hanger

18301 Edison Ave.
Chesterfield, MO 63005

Architectural Site Plan

mw weber architects
636.519.1400

07/30/18
18.009

PART OF LEASE LOT 19 OF SPIRIT OF ST. LOUIS AIRPORT – SITE DEVELOPMENT SECTION PLAN

A TRACT OF LAND BEING PART OF LEASE LOT 19 OF SIPIRT OF ST. LOUIS AIRPORT PLAT 1
AS RECORDED IN PLAT BOOK 258, PAGE 74
TOWNSHIP 45 NORTH, RANGE 3 EAST OF THE 5TH PRINCIPAL MERIDIAN
CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI

LEGEND

EXISTING CONTOURS	120
PROPOSED CONTOURS	120
EXISTING SANITARY SEWERS	
EXISTING STORM SEWERS	
PROPOSED SANITARY SEWERS	
PROPOSED STORM SEWERS	
EXISTING RIGHT-OF-WAY	
PROPOSED RIGHT-OF-WAY	
CENTERLINE	
EASEMENT	
NOTES PARKING SPACES	(18)
GUY WIRE	
EXISTING SPOT ELEVATION	+ EX. 120.15
PROPOSED SPOT ELEVATION	+ 120.10
SWALE	
TO BE REMOVED	T.B.R.
TO BE REMOVED & RELOCATED	T.B.R. & R.
TO BE USED IN PLACE	U.I.P.
BACK OF CURB	B.C.
FACE OF CURB	F.C.
TRASH ENCLOSURE	
EXISTING LIGHT STANDARD	
GAS MAIN	G
WATER MAIN	W
UNDERGROUND TELEPHONE	T
UNDERGROUND TELEPHONE	E

LEASEHOLD AREA PROPERTY DESCRIPTION

A tract of land being part of Lease Lot 19 of Spirit of St. Louis Airport Plat 1 as recorded in Plat Book 258, Page 74 Township 45 North, Range 3 East of the 5th Principal Meridian City of Chesterfield, St. Louis County, Missouri being more particularly described as follows

Commencing at a found iron rod located at the intersection of the west line of above said Lease Lot 19 and the north right-of-way line of Edison Avenue, 60 feet wide; thence along said right-of-way line, North 78 degrees 12 minutes 35 seconds East, 39.64 feet to its intersection with the direct southeasterly prolongation of the east line of Taxiway F, 80 feet wide, of above said Spirit of St. Louis Airport Plat 1, said point also being the POINT OF BEGINNING of the herein described tract; thence departing said right-of-way line along said prolongation line and the east line of said Taxiway F, North 11 degrees 47 minutes 25 seconds West, 470.93 feet; thence departing said east line, North 78 degrees 15 minutes 21 seconds East, 439.03 feet to a point being 71.82 feet west of the east line of above said Lease Lot 19; thence along a line parallel to and 71.82 feet west of the said east line, South 11 degrees 50 minutes 25 seconds East, 494.00 feet to a point being 63.42 feet north of the south line of said Lease Lot 19; thence along a line being parallel to and 63.42 feet north of said south line, South 78 degrees 10 minutes 41 seconds West, 320.33 feet to the eastern right-of-way line of above said Edison Avenue; thence along the eastern and northern right-of-way lines of Edison Avenue, North 44 degrees 21 minutes 54 seconds West, 28.00 feet and South 78 degrees 12 minutes 35 seconds West, 98.05 feet to the POINT OF BEGINNING. Containing 214,623 square feet or 4.927 acres, more or less according to calculations performed by Stock & Associates Consulting Engineers, Inc. on July 23, 2018

LOCATION MAP
(NOT TO SCALE)

SHEET INDEX

SITE INFORMATION

ADDRESS	= 18301 EDISON AVENUE CHESTERFIELD, MO 63005
LEASEHOLD AREA	= 4.93 ACRES
OWNER	= ST. LOUIS COUNTY
CITY	= CITY OF CHESTERFIELD
ZONING	= "M3" PLANNED INDUSTRIAL DISTRICT
FLOOD MAP	= 29189C0145K
SEWER DISTRICT	= MSD
WATERSHED	= MISSOURI RIVER
FIRE DISTRICT	= MONARCH CHESTERFIELD
SCHOOL DISTRICT	= ROCKWOOD R-6
ELECTRIC SERVICE	= AMEREN
GAS SERVICE	= SPIRE
PHONE SERVICE	= ATT
WATER SERVICE	= MO. AMERICAN WATER CO.
CABLE SERVICE	= CHARTER COMMUNICATIONS

PARKING CALCULATIONS

BUILDING AREA DATA:
HANGAR: 35,133 S.F.
WAREHOUSE: 5,370 S.F.
OFFICE: 4,497 S.F.

REQUIRED PARKING:

(MINIMUM)
OFFICE: 3.3/1,000 GFA = 3.3/1,000 x 4,497 = 14 SPACES
WAREHOUSE/HANGAR: 2 SPACES FOR EVERY 3 EMPLOYEES ON THE MAXIMUM SHIFT (25 EMPLOYEES = 16 SPACES)

TOTAL PERMITTED (MINIMUM): 30 SPACES

(MAXIMUM)
OFFICE: 4.5/1,000 GFA = 4.5/1,000 x 4,497 = 20 SPACES
WAREHOUSE/HANGAR: 1.2 SPACES PER EMPLOYEE ON THE MAXIMUM SHIFT (25 EMPLOYEES = 30 SPACES)

TOTAL PERMITTED (MAXIMUM): 50 SPACES

TOTAL PROVIDED: 38 SPACES (2 ACCESSIBLE)

REQUIRED LOADING: 10x40 LOADING SPACE (2)
10x25 LOADING SPACE (1)

TOTAL REQUIRED: 3 SPACES
TOTAL PROVIDED: 3 SPACES

OPEN SPACE CALCULATIONS

LEASEHOLD AREA:	214,623 S.F.
BUILDING AREA:	45,000 S.F.
F.A.R.: (45,000 / 214,623)	0.21
VEHICLE PAVEMENT AREA:	62,312 S.F.

PERCENT OPENSPACE:
[(214,623 – (45,000+62,312)) / 214,623] x 100 = 50.00%

_____, the owner(s) of the property
(Name of Owner(s))
shown on this plan for and in consideration of being granted approval of said plan to develop property under the provisions of section 03.

_____ (applicable subsection) _____ M3 (present zoning) of City of Chesterfield Unified Development Code, 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 City of Chesterfield, or voided or vacated by order of ordinance of the City of Chesterfield Council.

(Signature): _____

(Name Typed): _____

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

On this _____ day of _____, A.D., 2018, before me personally appeared _____ (Officer of Corporation), to me known, who, being by me duly sworn in, did say thot say he/she is the _____ (Title) of _____ (Name of Corporation), a corporation in the State of Missouri, and that the seal affixed to the foregoing instruments is the corporote seal of said corporation, and that said instrument was signed on behalf of said corporation by authority of its Board of Directors, and the _____ (Officer of Corporation) acknowledged said instrument to be the free act and deed of said corporation.

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

_____
Notory Public

_____
Print Name

My commission expires: _____

This Site Development Section Plon was approved by the City of Chesterfield Planning Commission ond duly verified on the_____doy of_____, of 2018, by the Choirperson of said Commission, outhorizing the recording of this Site Development Section Plan pursuant to Chesterfield Ordinance Number 200, os ottested to by the Planning ond Development Services Director.

_____
Justin Wyse, AICP
Director of Planning and Development Services
City of Chesterfield, Missouri

_____
Vickie Hoss, City Clerk
City of Chesterfield, Missouri

ABBREVIATIONS

W	– WATER	DB	– DEED BOOK
E	– ELECTRIC	PB	– PLAT BOOK
OE	– OVERHEAD ELECTRIC	PG	– PAGE
UE	– UNDERGROUND ELECTRIC	(_'W)	– RIGHT-OF-WAY WIDTH
G	– GAS	(REC)	– RECORD INFORMATION
T	– TELEPHONE	FT	– FEET
TBR	– TO BE REMOVED	N/F	– NOW OR FORMERLY
TBR & R	– TO BE REMOVED AND REPLACED	FND	– FOUND
UIP	– USE IN PLACE	SQ	– SQUARE
ATG	– ADJUST TO GRADE	CO	– CLEANOUT
BC	– BACK OF CURB	MH	– MANHOLE
FC	– FACE OF CURB	AI	– AREA INLET
TW	– TOP OF WALL	CI	– CURB INLET
BW	– BOTTOM OF WALL	GI	– GRATE INLET
PVMT	– PAVEMENT	YD	– YARD DRAIN
ASPH	– ASPHALT	PVC	– POLYVINYL CHLORIDE PIPE
CONC	– CONCRETE	RCP	– REINFORCED CONCRETE PIPE
GRND	– GROUND	CMP	– CORRUGATED METAL PIPE
FG	– FINISHED GRADE	VCP	– CLAY PIPE
FF	– FINISHED FLOOR	FL	– FLOWLINE
LL	– LOWER LEVEL	TS	– TAILSTAKE
TT	– TOP OF TURF	ELEV, EL	– ELEVATION
TC	– TOP OF CURB	PROP, PR	– PROPOSED
SG	– SUBGRADE	EXIST, EX	– EXISTING
MG	– METHANE GAS	TYP	– TYPICAL
		BMP	– BEST MANAGEMENT PRACTICES
		SWPPP	– STORMWATER POLLUTION PREVENTION PLAN

BENCHMARK

SL-40: BRASS DISC STAMPED "SL-40, 1990" ON THE NORTH SIDE OF NORTH OUTER 40 RD, ACROSS FROM THE INTERSECTION OF SPIRIT OF ST. LOUIS BOULEVARD. ELEV.=486.55

SITE BENCHMARK

ELEV.=461.90
FND. IRON PIPE AT THE NORTHWEST CORNER OF SITE AS SHOWN HEREON.

NOTES

1. BOUNDARY AND TOPOGRAPHICAL SURVEY BY STOCK AND ASSOCIATES CONSULTING ENGINEERS, INC. (BASIS OF BEARINGS: MISSOURI STATE PLANE, GRID NORTH)
2. SUBJECT PROPERTY LIES WITHIN FLOOD ZONES "AH" AND "X" (AREAS OF 500-YEAR FLOOD; AREAS OF 100-YEAR FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 100-YEAR FLOOD) ACCORDING TO THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP FOR ST. LOUIS COUNTY, MISSOURI AND INCORPORATED AREAS PER MAP NO. 29189C0145K WITH AN EFFECTIVE DATE OF FEBRUARY 4, 2015 WITH AN ELEVATION OF 459.
3. ALL UTILITIES SHOWN HAVE BEEN LOCATED BY THE ENGINEER FROM AVAILABLE RECORDS. THEIR LOCATION SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES, PRIOR TO CONSTRUCTION, TO HAVE EXISTING UTILITIES FIELD LOCATED. SHOULD ANY CONFLICTS BE EVIDENT, THE CONTRACTOR SHALL NOTIFY THE OFFICE OF THE ENGINEER IMMEDIATELY.
4. ON-SITE STORM WATER DRAINAGE REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE SPIRIT OF SAINT LOUIS AIRPORT NPDES PERMIT MOR80F016.
5. ALL PROPOSED UTILITIES SHALL BE CONSTRUCTED TO THE CITY OF CHESTERFIELD STANDARDS.
6. ALL GRADING AND DRAINAGE TO BE IN CONFORMANCE WITH THE SPIRIT OF SAINT LOUIS AIRPORT STANDARDS.
7. STORM WATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS.
8. THIS SITE DEVELOPMENT SECTION PLAN WILL ADHERE TO THE PARKING AND LOADING REGULATIONS OF THE CITY OF CHESTERFIELD CODE.
9. ALL UTILITIES WILL BE INSTALLED UNDERGROUND. THE DEVELOPMENT OF THIS PARCEL WILL COORDINATE THE INSTALLATION OF ALL UTILITIES IN CONJUNCTION WITH THE CONSTRUCTION OF ANY ROADWAY.
10. SIGNAGE WILL BE WALL MOUNT, NO FREE-STANDING BUSINESS SIGNS ARE PROPOSED.
11. ALL LIGHTING SHALL CONFORM TO THE LIGHTING ORDINANCE OF THE CITY OF CHESTERFIELD AND MEET THE SPIRIT OF SAINT LOUIS AIRPORT REQUIREMENTS.
12. PLANS SUBJECT TO CHANGE PENDING AGENCY REVIEWS AND FINAL ENGINEERING.
13. ALL UTILITY BOXES, INCLUDING TRANSFORMERS AND METERS, EXCEPT WHEN FLUSH WITH GROUND, WILL BE SCREENED AS REQUIRED BY CITY OF CHESTERFIELD CODE (APPENDIX A. SECTION 1003.177.11(D).
14. ALL ROOF TOP MOUNTED EQUIPMENT SHALL BE SCREENED.

SURVEYOR'S CERTIFICATION

THIS IS TO CERTIFY THAT STOCK ANO ASSOCIATES CONSULTING ENGINEERS, INC. HAS PREPARED THIS SITE DEVELOPMENT SECTION PLAN FROM A FIELD SURVEY ANO OOES NOT REPRESENT A PROPERTY BOUNOARY SURVEY. THIS SITE DEVELOPMENT SECTION PLAN IS A CORRECT REPRESENTATION OF ALL EXISTING ANO PROPOSEO LANO OIVISIONS.

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

By: _____
DANIEL EHLMANN, MISSOURI L.S. NO. 2215

GEOTECHNICAL STATEMENT

SCI ENGINEERING, INC., at the request of Contegra Construction Company has provided geotechnical services for the project proposed hereon. A geotechnicol investigotion titled "Geotechnicol Report AVMATS HANGAR CHESTERFIELD, MISSOURI", May 2018, SCI No. 2009-0313.11. Our findings indicate that the earth-related ospects ore suitoble for the development proposed pursuant to the geotechnicol recommendations set forth in our Geotechnicol Report.

_____

Date _____

prepared for:

CONTEGRA CONSTRUCTION LLC
22 GATEWAY COMMERCE CENTER DRIVE WEST
SUITE 110
EDWARDSVILLE, ILLINOIS 62025

AVMATS JET SUPPORT
18377 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005

PREPARED BY:
STOCK & ASSOCIATES Consulting Engineers, Inc.
257 Chesterfield Business Parkway
St. Louis, MO 63005 PH. (636) 530-9100 FAX (636) 530-9130
e-mail: general@stockassoc.com
Web: www.stockassoc.com

SITE DEVELOPMENT SECTION PLAN FOR:
PROPOSED 45,000 S.F. "AVMATS HANGAR" @ SPIRIT AIRPORT

18301 EDISON AVENUE
CHESTERFIELD
MISSOURI

DATE: 07/25/18

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

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

REVISIONS:

1	2018-07-25 REVISED PER AIRPORT, CLIENT AND CITY. ISSUE SDSP TO OUTSIDE AGENCIES FOR APPROVAL

DRAWN BY: D.P.B.	CHECKED BY: G.M.S.
DATE: 06/05/18	JOB NO.: 218-6256
M.S.D. P#: 18MSD-	BASE MAP #: ____
S.L.C. M&T #: –	M&T SUP. #: –
M.D.N.R. #: MO-RA____	

SHEET TITLE:
TITLE SHEET

SHEET NO.:
SDSP-01

PREPARED BY:

STOCK & ASSOCIATES
Consulting Engineers, Inc.

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

SITE DEVELOPMENT SECTION PLAN FOR:

PROPOSED 45,000 S.F. "AVMATS HANGAR" @ SPIRIT AIRPORT

18301 EDISON AVENUE
CHESTERFIELD
MISSOURI

DATE: 07/25/18

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

GEORGE M. STOCK E-25116
CIVIL ENGINEER
CERTIFICATE OF AUTHORITY
NUMBER: 000995

REVISIONS:

1	2018-07-25 REVISED PER AIRPORT, CLIENT AND CITY. ISSUE SDSP TO OUTSIDE AGENCIES FOR APPROVAL

DRAWN BY: D.P.B.	CHECKED BY: G.M.S.
DATE: 06/05/18	JOB NO.: 218-6256
M.S.D. P.W. 18MSD-	BASE MAP #
S.L.C. MAT # -	MAT SUP. # -
M.D.N.R. # MO-RA	

SHEET TITLE:

SITE PLAN

SHEET NO.:

SDSP-02

AVMATS Hanger

18301 Edison Ave.
Chesterfield, MO 63005

VIEW LOOKING NORTHWEST (SOUTH SIDE OF EDISON)

VIEW LOOKING NORTH (SOUTH SIDE OF EDISON)

VIEW LOOKING EAST (SOUTH SIDE OF EDISON)

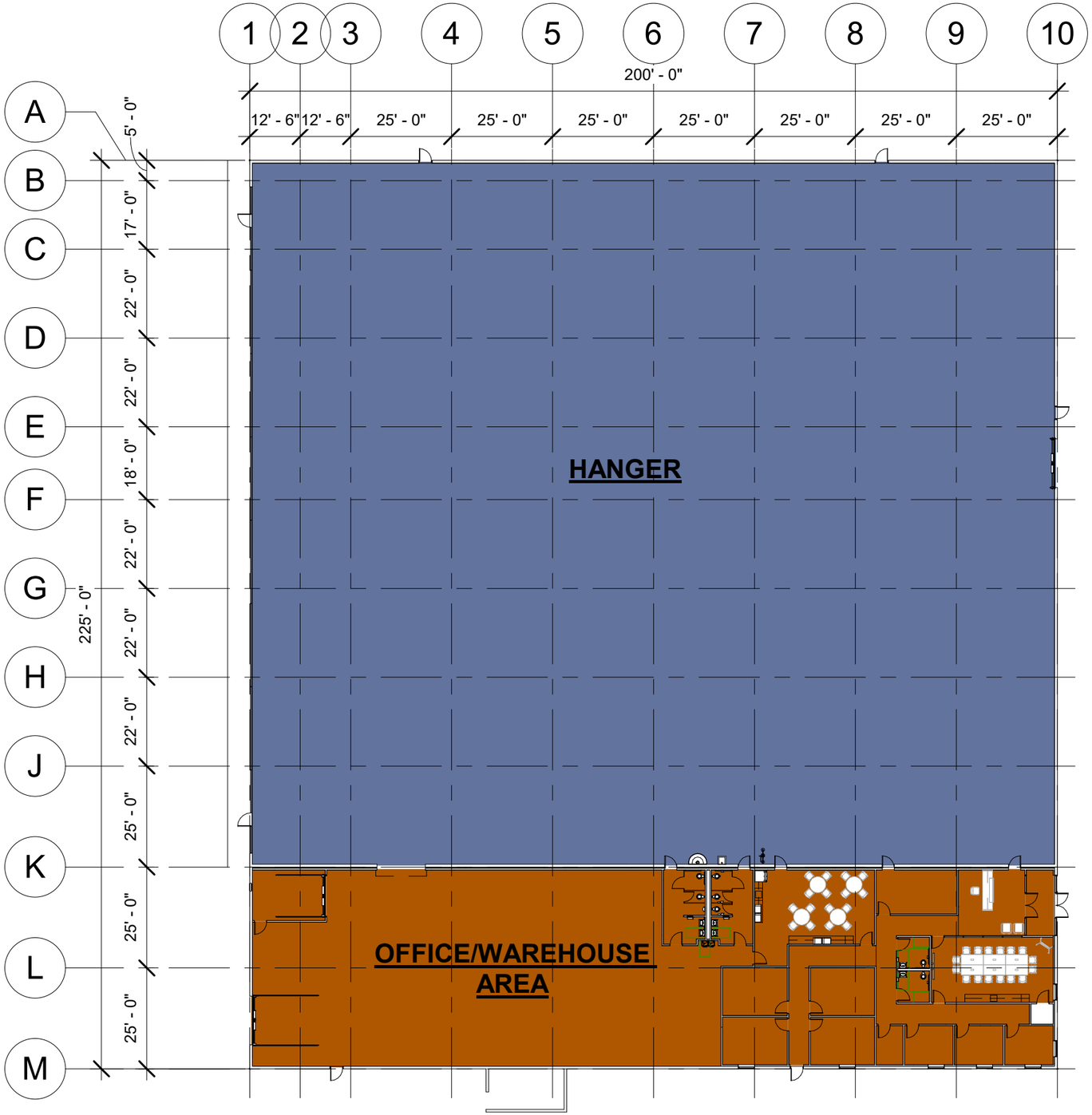
VIEW LOOKING NORTHWEST (SOUTH SIDE OF EDISON)

VIEW LOOKING SOUTH (SOUTH SIDE OF EDISON)

Photos

mw weber architects
636.519.1400

7/27/18
18.009



AVMATS Hanger

18301 Edison Ave.
Chesterfield, MO 63005

AREA LEGEND

HANGER

OFFICE/WAREHOUSE AREA

STATE OF MISSOURI
MICHAEL WILLIAM WEBER
A-5547
REGISTERED ARCHITECT

mw weber architects
636.519.1400

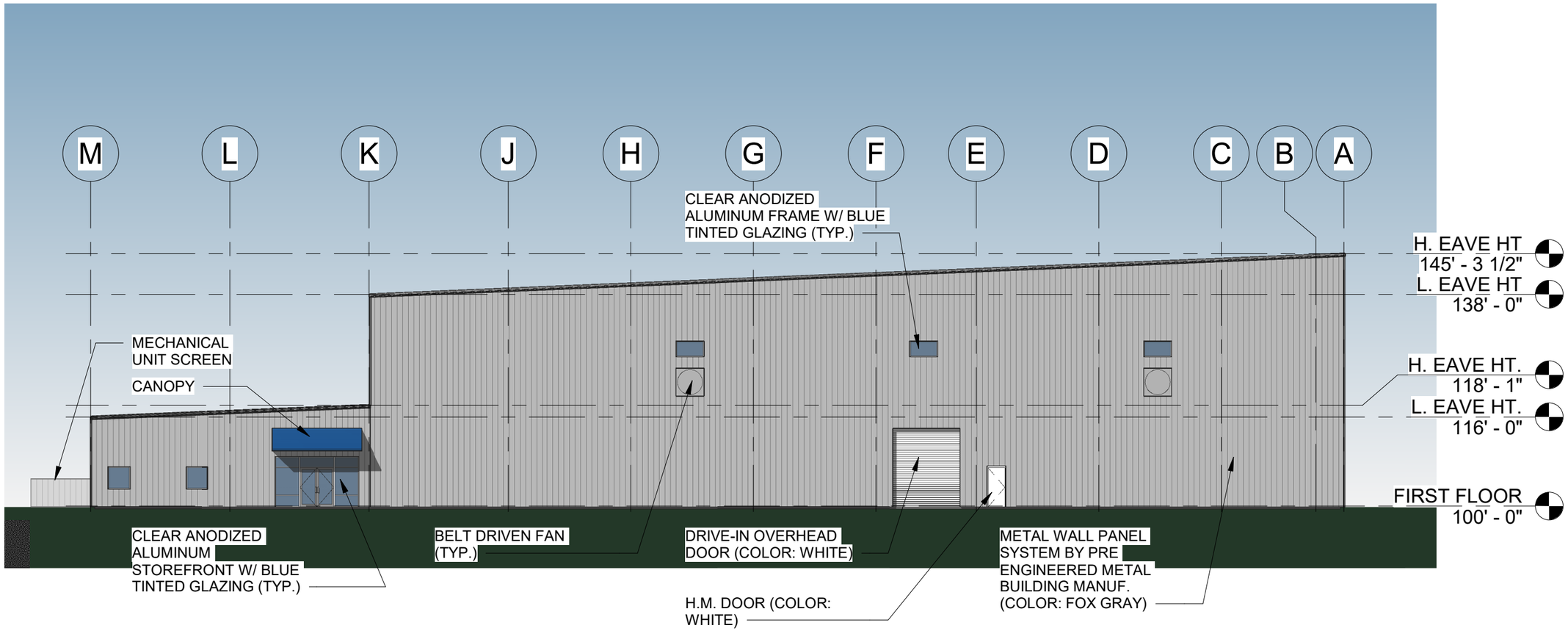
Overall Floor Plan

1" = 30'-0"

7/27/18
18.009

AVMATS Hanger

18301 Edison Ave.
Chesterfield, MO 63005



South Elevation

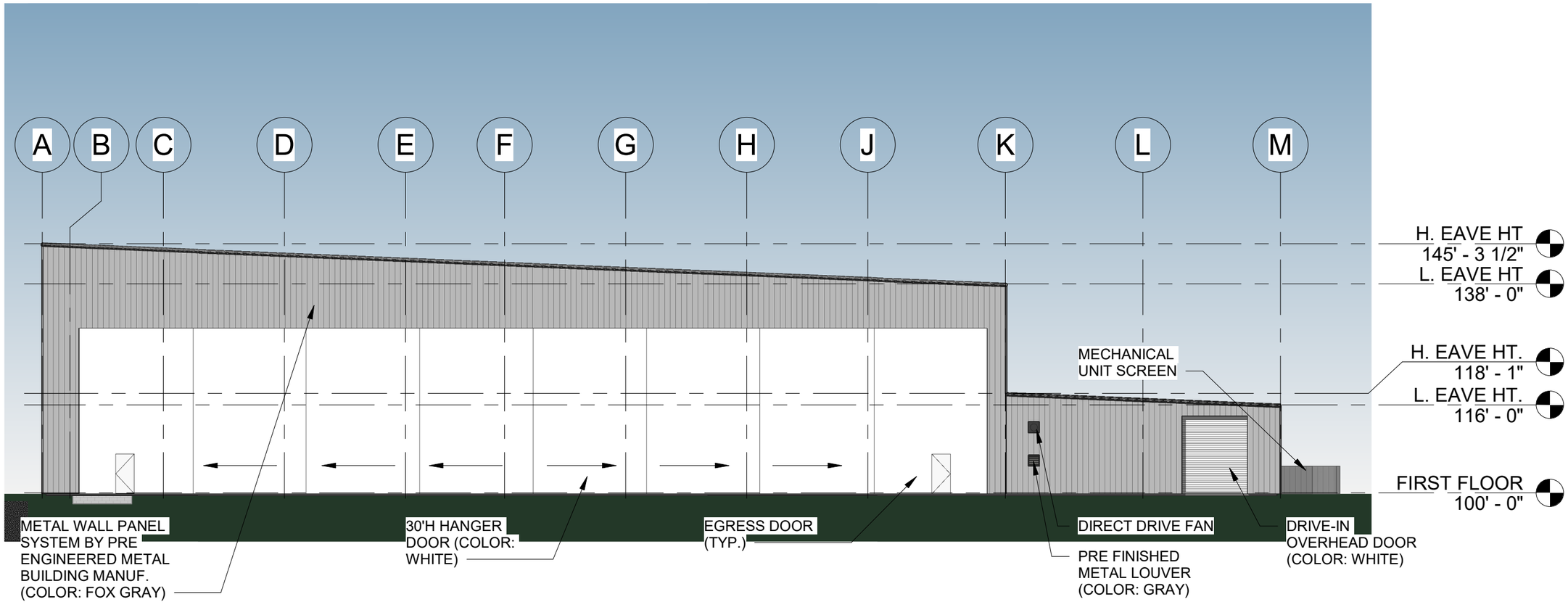
1" = 20'-0"

mw weber architects
636.519.1400

7/27/18
18.009

AVMATS Hanger

18301 Edison Ave.
Chesterfield, MO 63005



North Elevation

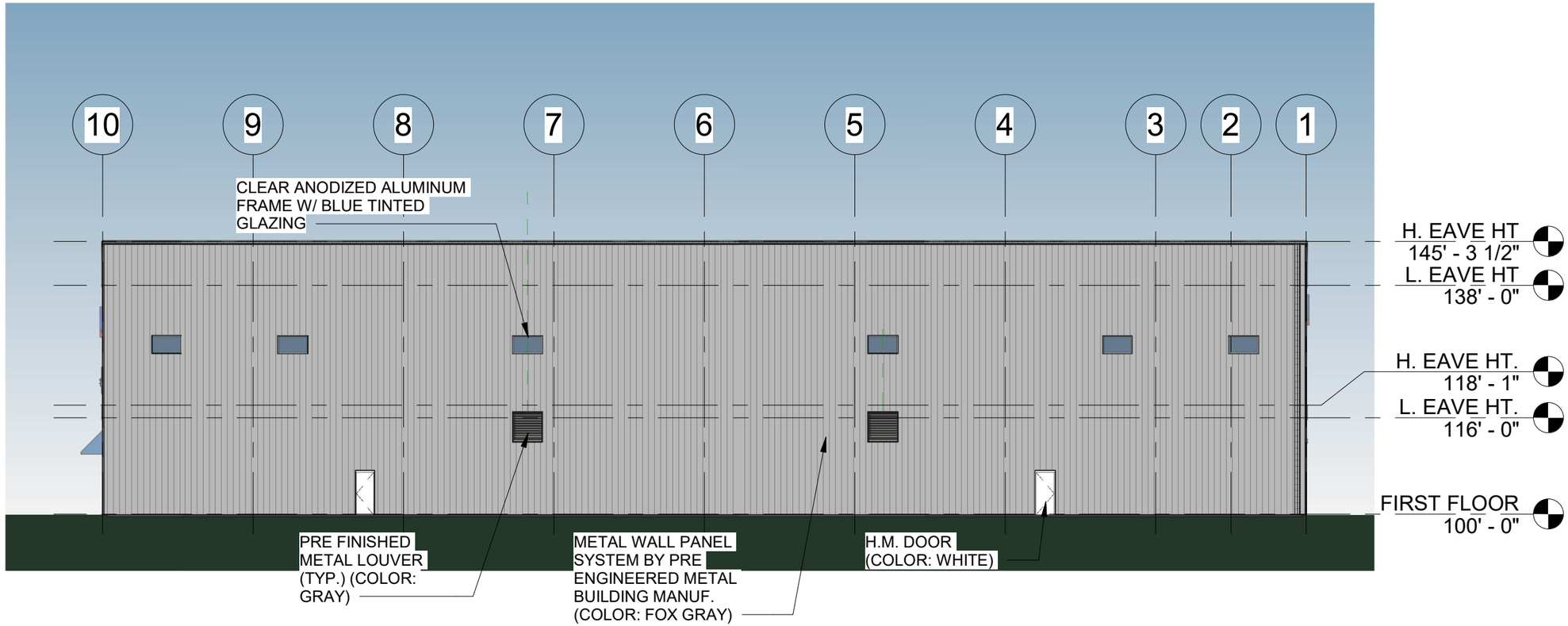
1" = 20'-0"

mw weber architects
636.519.1400

7/27/18
18.009

AVMATS Hanger

18301 Edison Ave.
Chesterfield, MO 63005



East Elevation

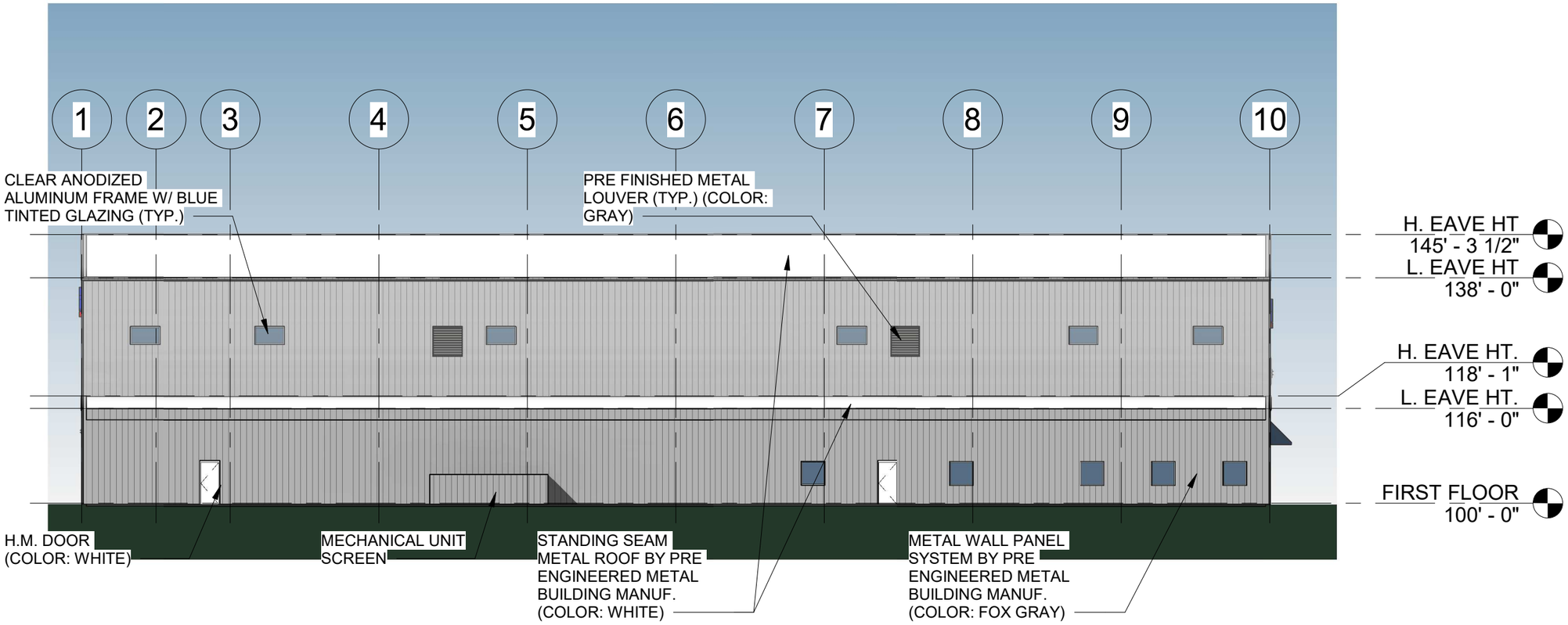
1" = 20'-0"

mw weber architects
636.519.1400

7/27/18
18.009

AVMATS Hanger

18301 Edison Ave.
Chesterfield, MO 63005



West Elevation

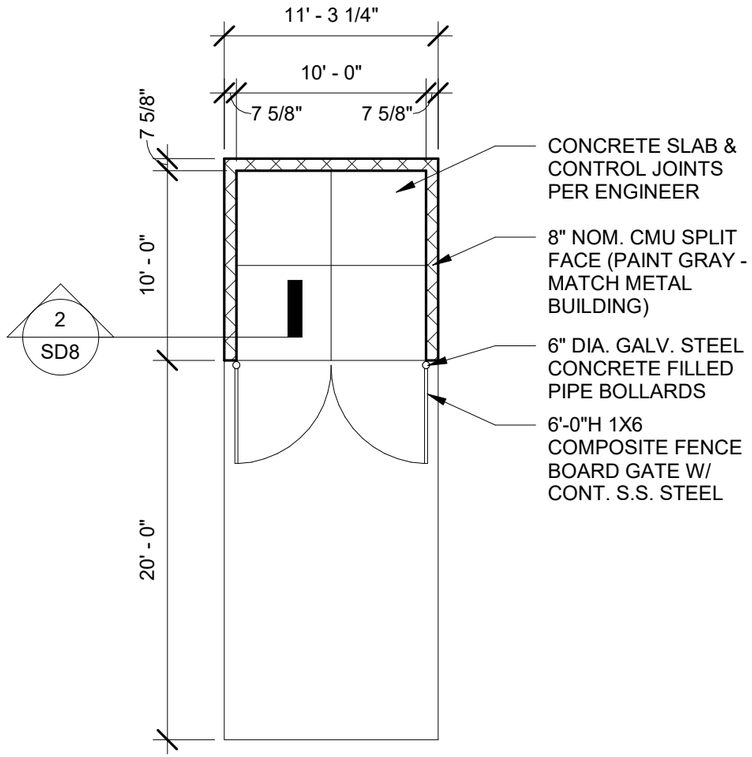
1" = 20'-0"

mw weber architects
636.519.1400

7/27/18
18.009

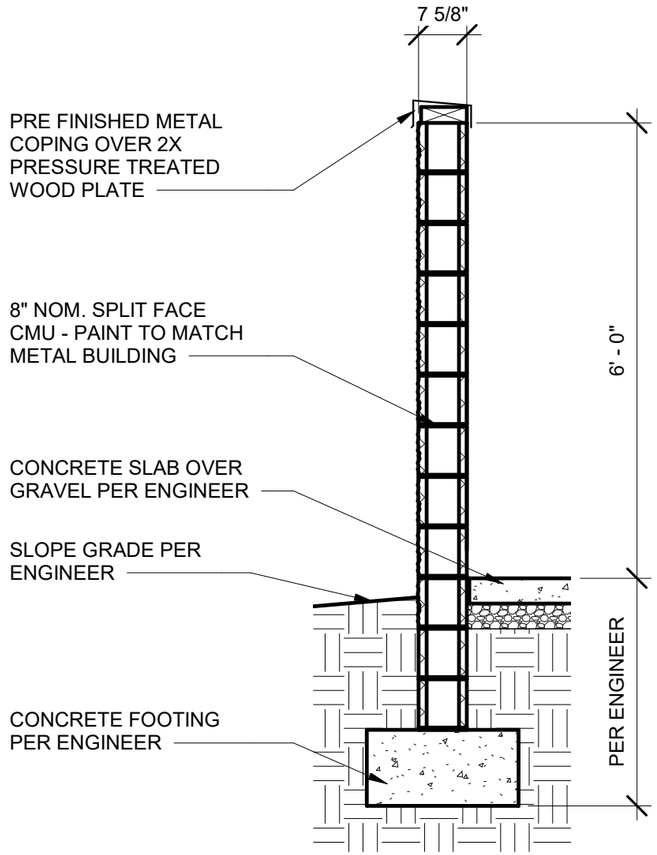
AVMATS Hanger

18301 Edison Ave.
Chesterfield, MO 63005



1 SD8 **TRASH ENCLOSURE PLAN**

1/8" = 1'-0"



2 SD8 **SECTION @ TRASH ENCLOSURE**

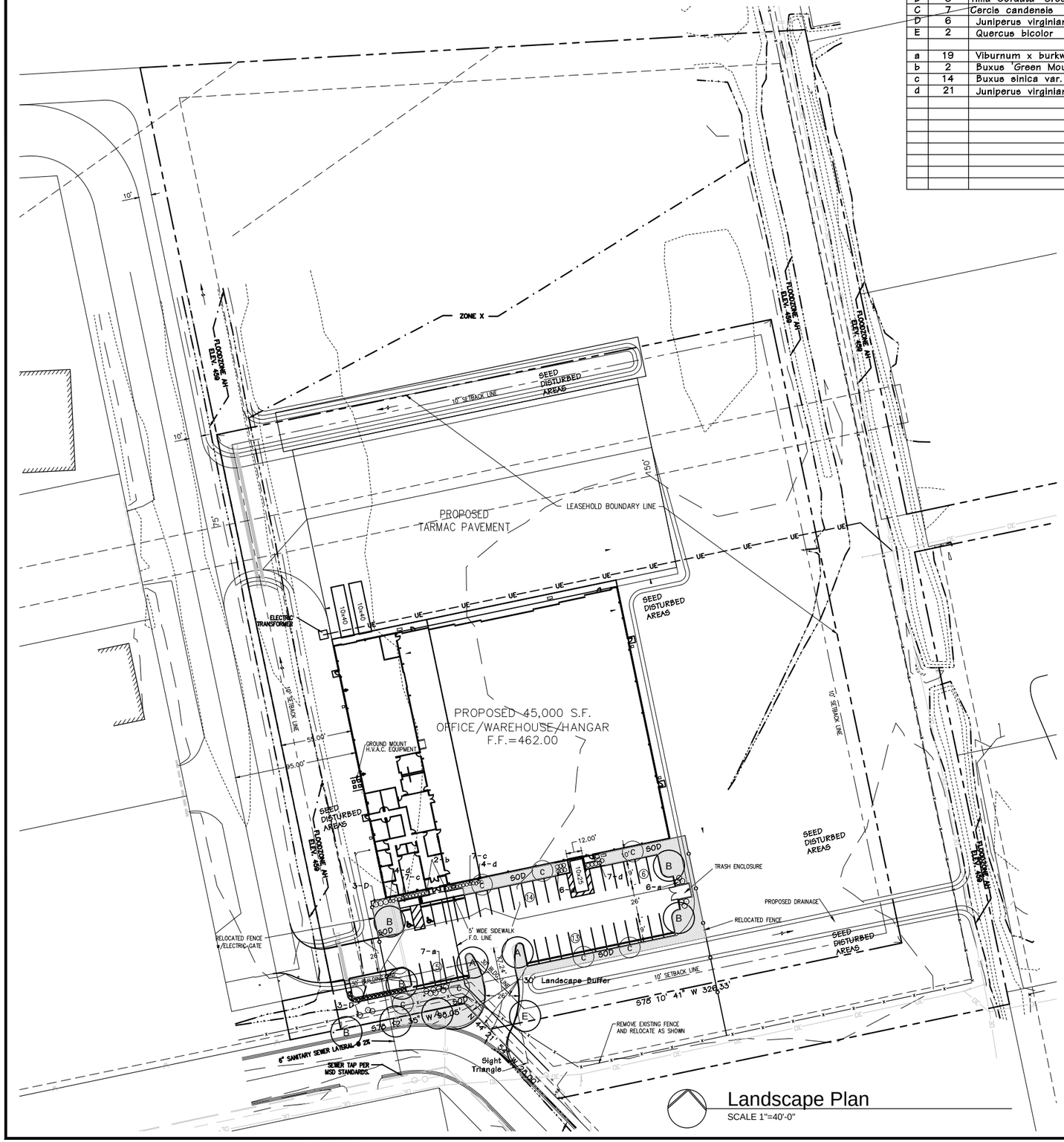
1/2" = 1'-0"

Trash Enclosure Plan & Section

As indicated

mw weber architects
636.519.1400

7/27/18
18.009

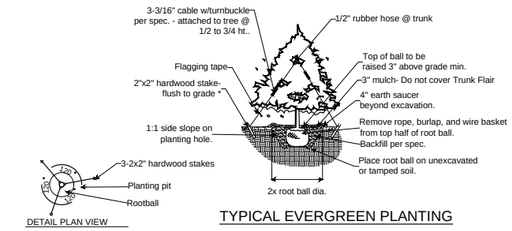


Landscape Plan
SCALE 1"=40'-0"

PLANTING SCHEDULE								
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	MATURE HEIGHT	Notes	CATEGORY	PERCENTAGE
A	3	Acer rubrum 'Red Sunset'	Red Sunset Red Maple	2 1/2"	45'+	Fast Growing	Deciduous	13%
B	5	Tillia Cordata 'Greenspire'	Little-leaf Linden	2 1/2"	45'+	Slow Growing	Deciduous	22%
C	7	Cercis candensis	Redbud	2 1/2"	25'+	Medium Growing	Ornamental	30%
D	6	Juniperus virginiana 'Taylor'	Taylor Juniper	6-8'	25'+	4' O.C.	Evergreen	26%
E	2	Quercus bicolor	Swamp White Oak	2 1/2"	45'+	Medium Growing	Deciduous	10%
a	19	Viburnum x burkwoodii	Burkwood Viburnum	24-30"		3' O.C.		
b	2	Buxus 'Green Mountain'	Green Mountain Boxwood	30-36"		as shown		
c	14	Buxus sinica var. 'Wingergreen'	Wintergreen Boxwood	18-24"		2.5' O.C.		
d	21	Juniperus virginiana 'Gray Owl'	Gray Owl Juniper	18-24"		4' O.C.		

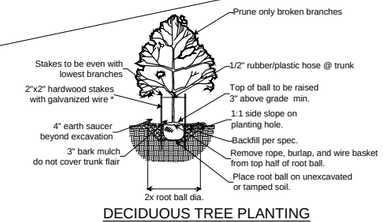
GENERAL NOTES:

1) Openspace ratio is 50.0% Total Site 214,623 SF/Openspace 107,311 SF
2) Street trees-Edison Road 126.0 lf/50 = 2.5 or 3 Street Trees
3) All street trees will be located at least 3' from proposed curb.
4) All street trees will be located at least 10' from all storm sewer structures.
5) All street trees will be located at least 25' from all Street lights, Signs, and intersections.
6) An in-ground irrigation system shall be provided for landscape areas.

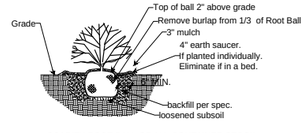


TYPICAL EVERGREEN PLANTING

* Staking should be done only when:
- Planting in soft, loose soils
- Root balls with sandy soil, or wet clay
- Trees located in an extremely windy location



DECIDUOUS TREE PLANTING



SCARIFY ROOT BALL OF ALL CONTAINER STOCK

TYPICAL SHRUB PLANTING

STATE OF MISSOURI
DOUGLAS A DELONG
NUMBER LA-81
LANDSCAPE ARCHITECT
7/25/2018

Douglas A. DeLong, Landscape Architect LA-81

Consultants:

45,000 S.F. "AVMATS HANGAR" @ Spirit Airport

18301 Edision Ave, Chesterfield, Missouri

Revisions:

Date	Description	No.
7/25/18	City Comments	1

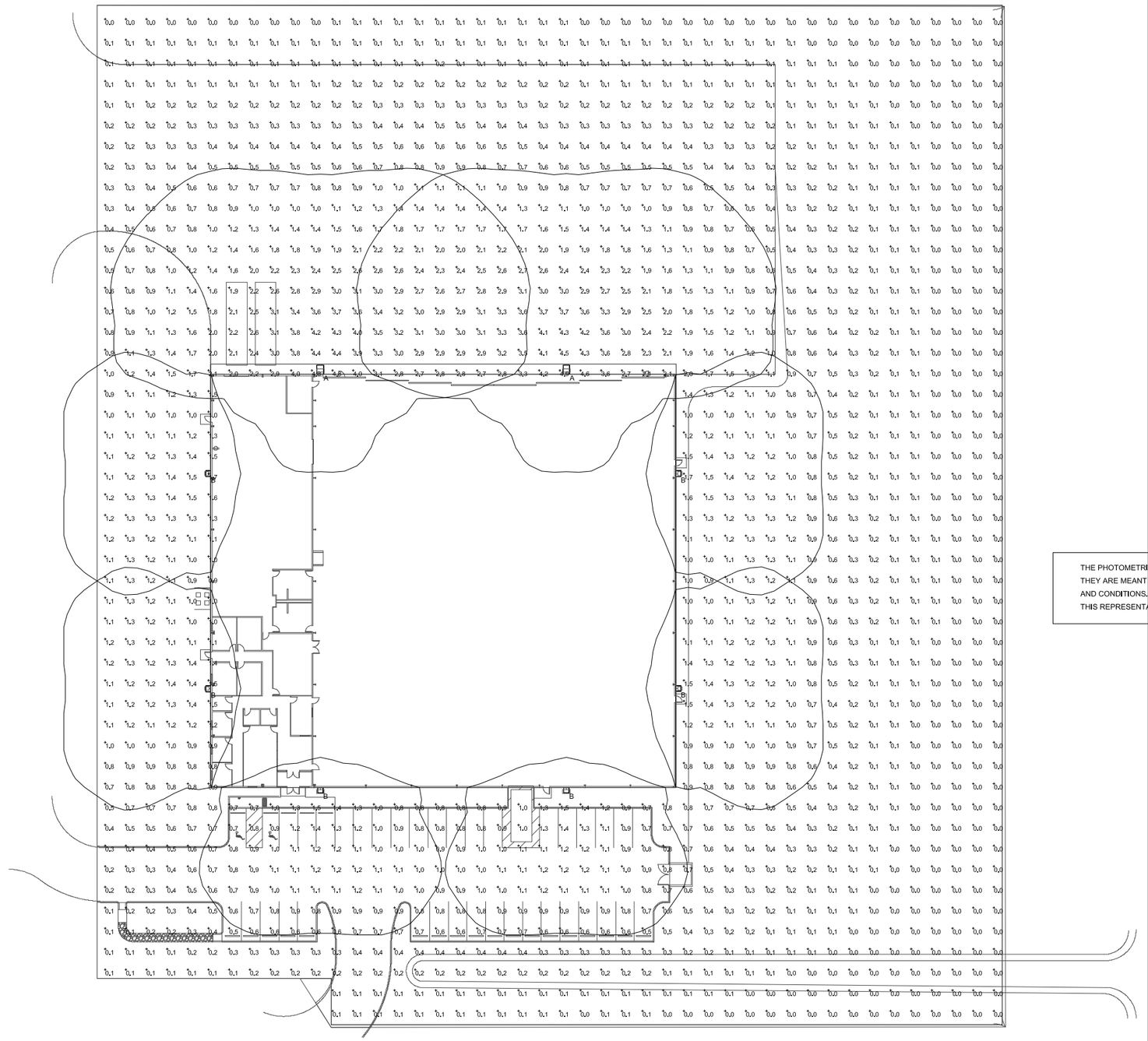
Drawn: BAD
Checked: DAD

DeLong Landscape Architecture, LLC
7620 West Bruno Ave
St. Louis, MO. 63117
(314) 346-4856
delong.la@gmail.com
Missouri State Certificate of Authority: #2013000145

Sheet Title: LANDSCAPE PLAN

Sheet No: L-1

Date: 06-21-2018
Job #: 171.002



THE PHOTOMETRIC INFORMATION SHOWN ON THIS DRAWING ARE A PRODUCT OF A NUMERIC PROGRAM THEY ARE MEANT AS A REPRESENTATION OF ANTICIPATED LIGHT LEVELS BASED ON ASSUMED PARAMETERS AND CONDITIONS. THE ACTUAL RESULTS WILL VARY AND NO GUARANTIES ARE INTENDED OR IMPLIED IN THIS REPRESENTATION

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	0.7 fc	4.6 fc	0.0 fc	N/A	N/A

Schedule

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	A	2	Lithonia Lighting	DSX2 LED P7 40K T4M MVOLT	DSX2 LED P7 40K T4M MVOLT	LED	1	DSX2_LED_P7_40K_T4M_MVOLT.ies	44965	0.95	398
	B	6	Lithonia Lighting	DSX1 LED P4 40K TFTM MVOLT HS	DSX1 LED P4 40K TFTM MVOLT with houseside shield	LED	1	DSX1_LED_P4_40K_TFTM_MVOLT_HS.ies	11311	1	125

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Rev.	Description	Date	By
0	CONSTRUCTION DRAWING	07/26/18	xxx

NEW HANGAR FOR:
AVMATS
18301 EDISON AVE.
CHESTERFIELD, MO.

RJP ELECTRIC
3609 South Big Bend Blvd
St.Louis, Missouri 63143
Phone: 314-781-2400
Fax: 314-781-4720

SHEET NO.
E-1

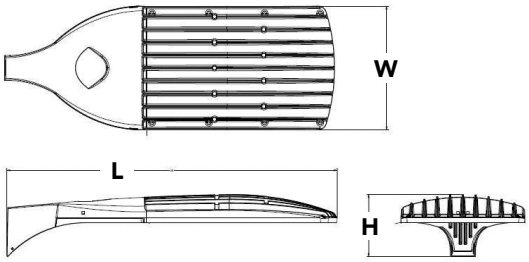
D-Series Size 2
LED Area Luminaire

Catalog Number	DSX2-LED-P7-40K-T4M-MV
Notes	
Type	A

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

EPA:	1.1 ft² (0.10 m²)
Length:	40" (101.6 cm)
Width:	15" (38.1 cm)
Height:	7-1/4" (18.4 cm)
Weight (max):	36 lbs (16.3 kg)



A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability1
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background[1]

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: Link to Roam; Link to DTL DLL

A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: DSX2 LED P7 T3M MVOLT SPA DDBXD

DSX2 LED

Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX2 LED	**Forward optics** P1 P5 P2 P6 P3 P7 P4 P8 **Rotated optics**[1] P10 P13 P11 P14 P12	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted[2,3]	T1S Type I Short T2S Type II Short T2M Type II Medium T3S Type III Short T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium T5VS Type V Very Short T5S Type V Short T5M Type V Medium T5W Type V Wide BLC Backlight control[2,3] LCCO Left corner cutoff[2,3] RCCO Right corner cutoff[2,3]	MVOLT[4,5] 120[6] 208[5,6] 240[5,6] 277[6] 347[5,6,7] 480[5,6,7]	**Shipped included** SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor[8] RPUMBA Round pole universal mounting adaptor[8] **Shipped separately** KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish)[9]

Control options

Shipped installed

NLTAIR2	nLight AIR generation 2 enabled[10]
PER	NEMA twist-lock receptacle only (no controls)[11]
PER5	Five-wire receptacle only (no controls)[11,12]
PER7	Seven-wire receptacle only (no controls)[11,12]
DMG	0-10V dimming extend out back of housing for external control (no controls)
DS	Dual switching[13,14]
PIRH	Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enable at 5fc[5,15]
PIRHN	Network, Bi-Level motion/ambient sensor[16]
PIRH1FC3V	Bi-level, motion sensor, 15'-30' mounting height, ambient sensor enabled at 1fc[5,15]
BL30	Bi-level switched dimming, 30%[5,13,17]
BL50	Bi-level switched dimming, 50%[5,13,17]
PNMTDD3	Part night, dim till dawn[5,18]
PNMT5D3	Part night, dim 5 hrs[5,18]
PNMT6D3	Part night, dim 6 hrs[5,18]
PNMT7D3	Part night, dim 7 hrs[5,18]
FAO	Field Adjustable Output[19]

Other options

Shipped installed

HS	House-side shield[20]
SF	Single fuse (120, 277, 347V)[6]
DF	Double fuse (208, 240, 480V)[6]
L90	Left rotated optics[1]
R90	Right rotated optics[1]

Shipped separately

BS	Bird spikes[21]
EGS	External glare shield[21]

Finish *(required)*

DDBXD	Dark bronze
DBLXD	Black
DNAXD	Natural aluminum
DWHXD	White
DDBTXD	Textured dark bronze
DBLBXD	Textured black
DNATXD	Textured natural aluminum
DWHGXD	Textured white

Ordering Information

Accessories

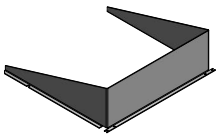
Ordered and shipped separately.

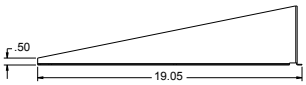
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [22]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [22]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) [22]
DSHORT SBK U	Shorting cap [22]
DSX2HS 80C U	House-side shield for 80 LED unit [20]
DSX2HS 90C U	House-side shield for 90 LED unit [20]
DSX2HS 100C U	House-side shield for 100 LED unit [20]
PUMBA DDBXD U*	Square and round pole universal mounting bracket (specify finish) [23]
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) [8]

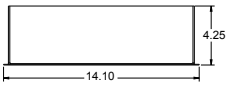
For more control options, visit DTL and ROAM online.

NOTES
1 P10, P11, P12 or P14 and rotated optics (L90, R90) only available together.
2 AMBPC not available with BLC, LCCO, RCCO, HS or P5, P7, P8, P13 or P14.
3 Not available with HS.
4 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
5 Any PIRx with BL30, BL50 or PNMT, is not available with 208V, 240V, 347V, 480V or MVOLT. It is only available in 120V or 277V specified.
6 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
7 Not available with BL30, BL50 or PNMT options.
8 Existing drilled pole only. Available as a separate combination accessory; for retrofit use only: PUMBA (finish) U; 1.5 G vibration load rating per ANCI C136.31.
9 Must order fixture with SPA otion.Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
10 Must be ordered with PIRHN.
11 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting Cap included.
12 If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Node with integral dimming. Shorting Cap included.
13 Requires (2) separately switched circuits. See Outdoor Control Technical Guide for details.
14 Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH.
15 Reference Motion Sensor table on page 3.
16 Must be ordered with NLTAIR2. For more information on nLight Air 2 visit this link.
17 Not available with 347V, 480V, DS and PNMT. For PER5 or PER7 see PER Table on page 3. Requires isolated neutral.
18 Not available with 347V, 480V, DS, BL30, BL50. For PER5 or PER7 see PER Table on page 3. Separate Dusk to Dawn required.
19 Not available with other dimming controls options.
20 Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
21 Must be ordered with fixture for factory pre-drilling.
22 Requires luminaire to be specified with PER, PER5 and PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.
23 For retrofit use only.

External Glare Shield

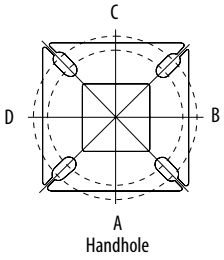




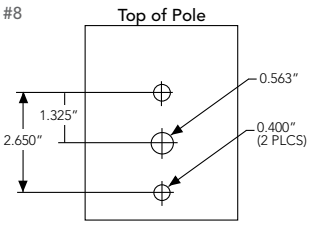


Drilling

HANDHOLE ORIENTATION



Template #8



Tenon Mounting Slipfitter**

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

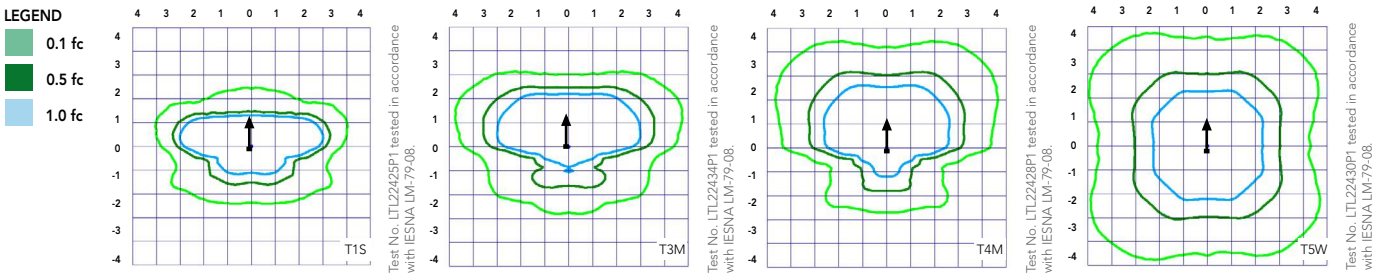
Pole drilling nomenclature: # of heads at degree from handhole (default side A)					
DM19AS	DM28AS	DM29AS	DM32AS	DM39AS	DM49AS
1 @ 90°	2 @ 280°	2 @ 90°	3 @ 120°	3 @ 90°	4 @ 90°
Side B	Side B & D	Side B & C	Round pole only	Side B, C, & D	Sides A, B, C, D
Note: Review luminaire spec sheet for specific nomenclature					

Pole top or tenon O.D.	4.5" @ 90°	4" @ 90°	3.5" @ 90°	3" @ 90°	4.5" @ 120°	4" @ 120°	3.5" @ 120°	3" @ 120°
DSX SPA	Y	Y	Y	N	-	-	-	-
DSX RPA	Y	Y	N	N	Y	Y	Y	Y
DSX SPUMBA	Y	N	N	N	-	-	-	-
DSX RPUMBA	N	N	N	N	Y	Y	Y	N
					*3 fixtures @120 require round pole top/tenon.			

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Area Size 2 homepage.

Isofootcandle plots for the DSX2 LED 80C 1000 40K. Distances are in units of mounting height (30').



Performance Data

Lumen Ambient Temperature (LAT) Multipliers

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

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

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

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

Operating Hours	0	25000	50000	100000
Lumen Maintenance Factor	1.00	0.96	0.92	0.85

Electrical Load

					Current (A)					
	Performance Package	LED Count	Drive Current	Wattage	120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	80	530	140	1.18	0.68	0.59	0.51	0.40	0.32
	P2	80	700	185	1.56	0.90	0.78	0.66	0.52	0.39
	P3	80	850	217	1.82	1.05	0.90	0.80	0.63	0.48
	P4	80	1050	270	2.27	1.31	1.12	0.99	0.79	0.59
	P5	80	1250	321	2.68	1.54	1.34	1.17	0.93	0.68
	P6	100	1050	343	2.89	1.66	1.59	1.37	1.00	0.71
	P7	100	1250	398	3.31	1.91	1.66	1.45	1.16	0.81
	P8	100	1350	431	3.61	2.07	1.81	1.57	1.25	0.91
Rotated Optics (Requires L90 or R90)	P10	90	530	156	1.30	0.76	0.65	0.62	0.45	0.32
	P11	90	700	207	1.75	1.01	0.87	0.74	0.60	0.46
	P12	90	850	254	2.12	1.22	1.06	0.94	0.73	0.55
	P13	90	1200	344	2.88	1.65	1.44	1.25	1.00	0.73
	P14	90	1400	405	3.39	1.95	1.71	1.48	1.18	0.86

Motion Sensor Default Settings						
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min
*for use with Inline Dusk to Dawn or timer.						

PER Table						
Control	PER (3 wire)	PER5 (5 wire)		PER7 (7 wire)		
			Wire 4/Wire5		Wire 4/Wire5	Wire 6/Wire7
Photocontrol Only (On/Off)	✔	⚠	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM	⊘	✔	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM with Motion (ROAM on/off only)	⊘	⚠	Wires Capped inside fixture	⚠	Wires Capped inside fixture	Wires Capped inside fixture
Future-proof*	⊘	⚠	Wired to dimming leads on driver	✔	Wired to dimming leads on driver	Wires Capped inside fixture
Future-proof* with Motion	⊘	⚠	Wires Capped inside fixture	✔	Wires Capped inside fixture	Wires Capped inside fixture

✔ Recommended
⊘ Will not work
⚠ Alternate

*Future-proof means: Ability to change controls in the future.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)					AMBPC (Amber Phosphor Converted)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
80	530	P1	140W	T1S	17,575	3	0	3	126	18,933	3	0	3	135	19,173	3	0	3	137	10,578	2	0	2	78
				T2S	17,556	3	0	3	125	18,913	3	0	3	135	19,152	3	0	3	137	10,554	2	0	2	77
				T2M	17,647	3	0	3	126	19,010	3	0	3	136	19,251	3	0	3	138	10,571	2	0	2	77
				T3S	17,090	3	0	3	122	18,411	3	0	3	132	18,644	3	0	3	133	10,548	2	0	2	77
				T3M	17,604	3	0	3	126	18,964	3	0	3	135	19,204	3	0	3	137	10,569	2	0	2	77
				T4M	17,221	3	0	3	123	18,552	3	0	4	133	18,787	3	0	4	134	10,547	2	0	2	77
				TFTM	17,593	3	0	3	126	18,952	3	0	4	135	19,192	3	0	4	137	10,741	1	0	2	78
				T5VS	18,297	4	0	1	131	19,711	4	0	1	141	19,961	4	0	1	143	11,155	3	0	0	81
				T5S	18,312	4	0	2	131	19,727	4	0	2	141	19,977	4	0	2	143	11,149	3	0	0	81
				T5M	18,266	4	0	2	130	19,677	4	0	2	141	19,926	4	0	2	142	11,096	3	0	2	81
				T5W	18,146	5	0	3	130	19,548	5	0	3	140	19,796	5	0	3	141	10,957	3	0	2	80
				BLC	14,424	2	0	2	103	15,539	2	0	3	111	15,736	2	0	3	112					
				LCCO	10,733	1	0	3	77	11,562	1	0	3	83	11,709	2	0	3	84					
				RCCO	10,733	1	0	3	77	11,562	1	0	3	83	11,709	2	0	3	84					
80	700	P2	185W	T1S	22,305	3	0	3	121	24,029	3	0	3	130	24,333	3	0	3	132	13,147	2	0	2	71
				T2S	22,281	3	0	4	120	24,003	3	0	4	130	24,307	3	0	4	131	13,116	2	0	2	70
				T2M	22,396	3	0	3	121	24,127	3	0	3	130	24,432	3	0	3	132	13,138	2	0	2	70
				T3S	21,690	3	0	4	117	23,366	3	0	4	126	23,662	3	0	4	128	13,110	2	0	2	70
				T3M	22,342	3	0	4	121	24,068	3	0	4	130	24,373	3	0	4	132	13,135	2	0	3	70
				T4M	21,857	3	0	4	118	23,545	3	0	4	127	23,844	3	0	4	129	13,108	2	0	2	70
				TFTM	22,328	3	0	4	121	24,054	3	0	4	130	24,358	3	0	4	132	13,349	2	0	2	71
				T5VS	23,222	5	0	1	126	25,016	5	0	1	135	25,333	5	0	1	137	13,864	3	0	1	74
				T5S	23,241	4	0	2	126	25,037	4	0	2	135	25,354	4	0	2	137	13,856	3	0	1	74
				T5M	23,182	5	0	3	125	24,974	5	0	3	135	25,290	5	0	3	137	13,790	3	0	2	73
				T5W	23,030	5	0	4	124	24,810	5	0	4	134	25,124	5	0	4	136	13,617	4	0	2	72
				BLC	18,307	2	0	3	99	19,721	2	0	3	107	19,971	2	0	3	108					
				LCCO	13,622	2	0	3	74	14,674	2	0	4	79	14,860	2	0	4	80					
				RCCO	13,622	2	0	3	74	14,674	2	0	4	79	14,860	2	0	4	80					
80	850	P3	217W	T1S	26,202	3	0	3	121	28,226	3	0	3	130	28,584	3	0	3	132	17,833	3	0	3	66
				T2S	26,174	3	0	4	121	28,196	3	0	4	130	28,553	3	0	4	132	17,791	3	0	3	66
				T2M	26,309	3	0	3	121	28,342	3	0	3	131	28,700	3	0	3	132	17,821	3	0	3	66
				T3S	25,479	3	0	4	117	27,448	3	0	4	126	27,795	3	0	4	128	17,782	3	0	3	66
				T3M	26,245	3	0	4	121	28,273	3	0	4	130	28,631	3	0	4	132	17,817	3	0	3	66
				T4M	25,675	3	0	4	118	27,659	3	0	4	127	28,009	3	0	4	129	17,779	3	0	3	66
				TFTM	26,229	3	0	4	121	28,255	3	0	4	130	28,613	3	0	4	132	18,107	3	0	3	67
				T5VS	27,279	5	0	1	126	29,387	5	0	1	135	29,759	5	0	1	137	18,805	4	0	1	70
				T5S	27,301	4	0	2	126	29,410	5	0	2	136	29,783	5	0	2	137	18,794	4	0	1	70
				T5M	27,232	5	0	3	125	29,336	5	0	3	135	29,707	5	0	3	137	18,705	4	0	2	69
				T5W	27,053	5	0	4	125	29,144	5	0	4	134	29,513	5	0	4	136	18,470	5	0	3	68
				BLC	21,504	2	0	3	99	23,166	2	0	3	107	23,459	2	0	4	108					
				LCCO	16,001	2	0	4	74	17,238	2	0	4	79	17,456	2	0	4	80					
				RCCO	16,001	2	0	4	74	17,238	2	0	4	79	17,456	2	0	4	80					
80	1050	P4	270W	T1S	30,963	4	0	4	115	33,355	4	0	4	124	33,777	4	0	4	125					
				T2S	30,930	4	0	4	115	33,320	4	0	4	123	33,742	4	0	4	125					
				T2M	31,089	3	0	4	115	33,491	3	0	4	124	33,915	3	0	4	126					
				T3S	30,108	4	0	4	112	32,435	4	0	5	120	32,845	4	0	5	122					
				T3M	31,014	3	0	4	115	33,410	3	0	4	124	33,833	3	0	4	125					
				T4M	30,340	3	0	5	112	32,684	3	0	5	121	33,098	3	0	5	123					
				TFTM	30,995	3	0	5	115	33,390	3	0	5	124	33,812	3	0	5	125					
				T5VS	32,235	5	0	1	119	34,726	5	0	1	129	35,166	5	0	1	130					
				T5S	32,261	5	0	2	119	34,754	5	0	2	129	35,194	5	0	2	130					
				T5M	32,180	5	0	4	119	34,667	5	0	4	128	35,105	5	0	4	130					
				T5W	31,969	5	0	4	118	34,439	5	0	5	128	34,875	5	0	5	129					
				BLC	25,412	2	0	4	94	27,376	2	0	4	101	27,722	2	0	4	103					
				LCCO	18,909	2	0	4	70	20,370	2	0	4	75	20,628	2	0	4	76					
				RCCO	18,909	2	0	4	70	20,370	2	0	4	75	20,628	2	0	4	76					

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)					AMBPC (Amber Phosphor Converted)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
80	1250	**P5**	321W	T1S	35,193	4	0	4	110	37,912	4	0	4	118	38,392	4	0	4	120					
				T2S	35,155	4	0	5	110	37,872	4	0	5	118	38,351	4	0	5	119					
				T2M	35,336	4	0	4	110	38,067	4	0	4	119	38,549	4	0	4	120					
				T3S	34,222	4	0	5	107	36,866	4	0	5	115	37,333	4	0	5	116					
				T3M	35,251	3	0	4	110	37,974	3	0	5	118	38,455	4	0	5	120					
				T4M	34,485	3	0	5	107	37,149	4	0	5	116	37,620	4	0	5	117					
				TFTM	35,229	3	0	5	110	37,951	3	0	5	118	38,431	3	0	5	120					
				T5VS	36,639	5	0	1	114	39,470	5	0	1	123	39,970	5	0	1	125					
				T5S	36,669	5	0	2	114	39,502	5	0	2	123	40,002	5	0	2	125					
				T5M	36,576	5	0	4	114	39,403	5	0	4	123	39,901	5	0	4	124					
				T5W	36,336	5	0	5	113	39,144	5	0	5	122	39,640	5	0	5	123					
				BLC	28,884	3	0	4	90	31,115	3	0	4	97	31,509	3	0	4	98					
				LCCO	21,492	2	0	4	67	23,153	2	0	5	72	23,446	3	0	5	73					
				RCCO	21,492	2	0	4	67	23,153	2	0	5	72	23,446	3	0	5	73					
100	1050	**P6**	343W	T1S	37,824	4	0	4	110	40,747	4	0	4	119	41,263	4	0	4	120	21,838	1	0	1	64
				T2S	37,784	4	0	5	110	40,704	4	0	5	119	41,219	4	0	5	120	21,787	1	0	1	64
				T2M	37,979	4	0	4	111	40,913	4	0	4	119	41,431	4	0	4	121	21,824	1	0	1	64
				T3S	36,780	4	0	5	107	39,623	4	0	5	116	40,124	4	0	5	117	21,776	1	0	1	63
				T3M	37,886	3	0	5	110	40,814	4	0	5	119	41,331	4	0	5	120	21,819	1	0	1	64
				T4M	37,063	4	0	5	108	39,927	4	0	5	116	40,433	4	0	5	118	22,175	1	0	1	65
				TFTM	37,863	3	0	5	110	40,789	4	0	5	119	41,305	4	0	5	120	21,773	1	0	1	63
				T5VS	39,379	5	0	1	115	42,422	5	0	1	124	42,959	5	0	1	125	23,029	2	0	0	67
				T5S	39,411	5	0	2	115	42,456	5	0	2	124	42,993	5	0	2	125	23,016	2	0	0	67
				T5M	39,311	5	0	4	115	42,349	5	0	4	123	42,885	5	0	4	125	22,906	2	0	1	67
				T5W	39,053	5	0	5	114	42,071	5	0	5	123	42,604	5	0	5	124	22,619	2	0	1	66
				BLC	31,043	3	0	4	91	33,442	3	0	4	97	33,865	3	0	4	99					
				LCCO	23,099	2	0	5	67	24,884	3	0	5	73	25,199	3	0	5	73					
				RCCO	23,099	2	0	5	67	24,884	3	0	5	73	25,199	3	0	5	73					
100	1250	**P7**	398W	T1S	42,599	4	0	4	107	45,890	4	0	4	115	46,471	4	0	4	117					
				T2S	42,553	4	0	5	107	45,842	4	0	5	115	46,422	4	0	5	117					
				T2M	42,773	4	0	4	107	46,078	4	0	4	116	46,661	4	0	5	117					
				T3S	41,423	4	0	5	104	44,624	4	0	5	112	45,189	4	0	5	114					
				T3M	42,669	4	0	5	107	45,966	4	0	5	115	46,548	4	0	5	117					
				T4M	41,742	4	0	5	105	44,967	4	0	5	113	45,537	4	0	5	114					
				TFTM	42,643	4	0	5	107	45,938	4	0	5	115	46,519	4	0	5	117					
				T5VS	44,350	5	0	1	111	47,777	5	0	1	120	48,381	5	0	1	122					
				T5S	44,385	5	0	2	112	47,815	5	0	3	120	48,420	5	0	3	122					
				T5M	44,273	5	0	4	111	47,695	5	0	4	120	48,298	5	0	4	121					
				T5W	43,983	5	0	5	111	47,382	5	0	5	119	47,982	5	0	5	121					
				BLC	34,962	3	0	4	88	37,664	3	0	5	95	38,140	3	0	5	96					
				LCCO	26,015	3	0	5	65	28,025	3	0	5	70	28,380	3	0	5	71					
				RCCO	26,015	3	0	5	65	28,025	3	0	5	70	28,380	3	0	5	71					
100	1350	**P8**	448W	T1S	45,610	4	0	4	106	49,135	4	0	4	114	49,757	4	0	4	115					
				T2S	45,562	4	0	5	106	49,083	4	0	5	114	49,704	4	0	5	115					
				T2M	45,797	4	0	4	106	49,336	4	0	5	114	49,960	4	0	5	116					
				T3S	44,352	4	0	5	103	47,779	4	0	5	111	48,384	4	0	5	112					
				T3M	45,686	4	0	5	106	49,216	4	0	5	114	49,839	4	0	5	116					
				T4M	44,693	4	0	5	104	48,147	4	0	5	112	48,756	4	0	5	113					
				TFTM	45,657	4	0	5	106	49,186	4	0	5	114	49,808	4	0	5	116					
				T5VS	47,485	5	0	1	110	51,155	5	0	1	119	51,802	5	0	1	120					
				T5S	47,524	5	0	3	110	51,196	5	0	3	119	51,844	5	0	3	120					
				T5M	47,404	5	0	4	110	51,067	5	0	5	118	51,713	5	0	5	120					
				T5W	47,093	5	0	5	109	50,732	5	0	5	118	51,374	5	0	5	119					
				BLC	37,434	3	0	5	87	40,326	3	0	5	94	40,837	3	0	5	95					
				LCCO	27,854	3	0	5	65	30,006	3	0	5	70	30,386	3	0	5	71					
				RCCO	27,854	3	0	5	65	30,006	3	0	5	70	30,386	3	0	5	71					

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Rotated Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)					AMBPC (Amber Phosphor Converted)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
90	530	**P10**	156W	T1S	20,145	4	0	4	129	21,702	4	0	4	139	21,977	4	0	4	141	11,475	3	0	3	77
				T2S	20,029	4	0	4	128	21,577	4	0	4	138	21,850	4	0	4	140	11,448	3	0	3	76
				T2M	20,391	4	0	4	131	21,967	4	0	4	141	22,245	4	0	4	143	11,467	3	0	3	76
				T3S	19,719	4	0	4	126	21,242	4	0	4	136	21,511	4	0	4	138	11,442	3	0	3	76
				T3M	20,379	4	0	4	131	21,954	4	0	4	141	22,232	4	0	4	143	11,464	4	0	4	76
				T4M	19,995	4	0	4	128	21,540	4	0	4	138	21,812	5	0	5	140	11,440	4	0	4	76
				TFTM	20,511	4	0	4	131	22,096	5	0	5	142	22,376	5	0	5	143	11,651	4	0	4	78
				T5VS	20,655	4	0	1	132	22,251	4	0	1	143	22,533	4	0	1	144	12,288	3	0	1	82
				T5S	20,482	4	0	2	131	22,064	4	0	2	141	22,343	4	0	2	143	11,978	3	0	1	80
				T5M	20,477	5	0	3	131	22,059	5	0	3	141	22,338	5	0	3	143	12,301	4	0	2	82
				T5W	20,293	5	0	3	130	21,861	5	0	3	140	22,138	5	0	4	142	12,109	4	0	2	81
				BLC	16,846	4	0	4	108	18,148	4	0	4	116	18,378	4	0	4	118					
				LCCO	12,032	2	0	3	77	12,961	2	0	3	83	13,125	2	0	3	84					
				RCCO	12,016	4	0	4	77	12,944	4	0	4	83	13,108	4	0	4	84					
90	700	**P11**	207W	T1S	25,518	4	0	4	123	27,490	4	0	4	133	27,837	4	0	4	134	14,387	3	0	3	70
				T2S	25,371	5	0	5	123	27,331	5	0	5	132	27,677	5	0	5	134	14,354	3	0	3	70
				T2M	25,829	4	0	4	125	27,825	4	0	4	134	28,177	4	0	4	136	14,378	4	0	4	70
				T3S	24,977	5	0	5	121	26,907	5	0	5	130	27,248	5	0	5	132	14,347	4	0	4	70
				T3M	25,814	5	0	5	125	27,809	5	0	5	134	28,161	5	0	5	136	14,374	4	0	4	70
				T4M	25,327	5	0	5	122	27,284	5	0	5	132	27,629	5	0	5	133	14,344	4	0	4	70
				TFTM	25,981	5	0	5	126	27,989	5	0	5	135	28,343	5	0	5	137	15,408	4	0	1	75
				T5VS	26,164	5	0	1	126	28,185	5	0	1	136	28,542	5	0	1	138	15,019	4	0	1	73
				T5S	25,943	4	0	2	125	27,948	5	0	2	135	28,302	5	0	2	137	15,424	4	0	2	75
				T5M	25,937	5	0	3	125	27,941	5	0	3	135	28,295	5	0	3	137	14,609	4	0	4	71
				T5W	25,704	5	0	4	124	27,691	5	0	4	134	28,041	5	0	4	135	15,182	4	0	2	74
				BLC	21,339	4	0	4	103	22,988	4	0	4	111	23,279	4	0	4	112					
				LCCO	15,240	2	0	4	74	16,418	2	0	4	79	16,626	2	0	4	80					
				RCCO	15,220	5	0	5	74	16,396	5	0	5	79	16,604	5	0	5	80					
90	850	**P12**	254W	T1S	29,912	4	0	4	118	32,223	4	0	4	127	32,631	5	0	4	128					
				T2S	29,740	5	0	5	117	32,038	5	0	5	126	32,443	5	0	5	128					
				T2M	30,277	4	0	4	119	32,616	5	0	5	128	33,029	5	0	5	130					
				T3S	29,278	5	0	5	115	31,540	5	0	5	124	31,940	5	0	5	126					
				T3M	30,259	5	0	5	119	32,597	5	0	5	128	33,010	5	0	5	130					
				T4M	29,688	5	0	5	117	31,982	5	0	5	126	32,387	5	0	5	128					
				TFTM	30,455	5	0	5	120	32,808	5	0	5	129	33,224	5	0	5	131					
				T5VS	30,669	5	0	1	121	33,039	5	0	1	130	33,457	5	0	1	132					
				T5S	30,411	5	0	2	120	32,761	5	0	2	129	33,176	5	0	2	131					
				T5M	30,404	5	0	3	120	32,753	5	0	4	129	33,168	5	0	4	131					
				T5W	30,131	5	0	4	119	32,459	5	0	4	128	32,870	5	0	4	129					
				BLC	25,013	4	0	4	98	26,946	4	0	4	106	27,287	4	0	4	107					
				LCCO	17,865	2	0	4	70	19,245	2	0	4	76	19,489	2	0	4	77					
				RCCO	17,841	5	0	5	70	19,220	5	0	5	76	19,463	5	0	5	77					
90	1200	**P13**	344W	T1S	38,768	5	0	5	113	41,764	5	0	5	121	42,292	5	0	5	123					
				T2S	38,545	5	0	5	112	41,523	5	0	5	121	42,049	5	0	5	122					
				T2M	39,241	5	0	5	114	42,273	5	0	5	123	42,808	5	0	5	124					
				T3S	37,947	5	0	5	110	40,879	5	0	5	119	41,396	5	0	5	120					
				T3M	39,218	5	0	5	114	42,249	5	0	5	123	42,783	5	0	5	124					
				T4M	38,478	5	0	5	112	41,451	5	0	5	120	41,976	5	0	5	122					
				TFTM	39,472	5	0	5	115	42,522	5	0	5	124	43,060	5	0	5	125					
				T5VS	39,749	5	0	1	116	42,821	5	0	1	124	43,363	5	0	1	126					
				T5S	39,415	5	0	2	115	42,461	5	0	2	123	42,998	5	0	2	125					
				T5M	39,405	5	0	4	115	42,450	5	0	4	123	42,988	5	0	4	125					
				T5W	39,052	5	0	5	114	42,069	5	0	5	122	42,602	5	0	5	124					
				BLC	32,419	5	0	5	94	34,925	5	0	5	102	35,367	5	0	5	103					
				LCCO	23,154	3	0	5	67	24,943	3	0	5	73	25,259	3	0	5	73					
				RCCO	23,124	5	0	5	67	24,910	5	0	5	72	25,226	5	0	5	73					
90	1400	**P14**	405W	T1S	42,867	5	0	5	106	46,180	5	0	5	114	46,764	5	0	5	115					
				T2S	42,621	5	0	5	105	45,914	5	0	5	113	46,495	5	0	5	115					
				T2M	43,390	5	0	5	107	46,743	5	0	5	115	47,335	5	0	5	117					
				T3S	41,959	5	0	5	104	45,201	5	0	5	112	45,773	5	0	5	113					
				T3M	43,365	5	0	5	107	46,716	5	0	5	115	47,307	5	0	5	117					
				T4M	42,547	5	0	5	105	45,834	5	0	5	113	46,414	5	0	5	115					
				TFTM	43,646	5	0	5	108	47,018	5	0	5	116	47,614	5	0	5	118					
				T5VS	43,952	5	0	1	109	47,349	5	0	1	117	47,948	5	0	1	118					
				T5S	43,583	5	0	2	108	46,950	5	0	2	116	47,545	5	0	3	117					
				T5M	43,572	5	0	4	108	46,939	5	0	4	116	47,533	5	0	4	117					
				T5W	43,181	5	0	5	107	46,518	5	0	5	115	47,107	5	0	5	116					
				BLC	35,847	5	0	5	89	38,617	5	0	5	95	39,106	5	0	5	97					
				LCCO	25,602	3	0	5	63	27,580	3	0	5	68	27,930	3	0	5	69					
				RCCO	25,569	5	0	5	63	27,544	5	0	5	68	27,893	5	0	5	69					

FEATURES & SPECIFICATIONS

INTENDED USE
The sleek design of the D-Series Area Size 2 reflects the embedded high performance LED technology. It is ideal for applications like car dealerships and large parking lots adjacent to malls, transit stations, grocery stores, home centers, and other big-box retailers.

CONSTRUCTION
Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.1 ft^2) for optimized pole wind loading.

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS
Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K, or 5000 K (70 CRI) configurations. The D-Series Size 2 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hrs at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily-serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION
Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 2 to withstand up to a 2.0 G vibration load rating per ANSI C136.31. The D-Series Size 2 utilizes the AERIS™ series pole drilling pattern (Template #8). NEMA photocontrol receptacle is available.

LISTINGS
UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D670,857 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

WARRANTY
5-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

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

D-Series Size 1
LED Area Luminaire

Catalog Number: DSX1-LED-P4-40K-T4TM-MV

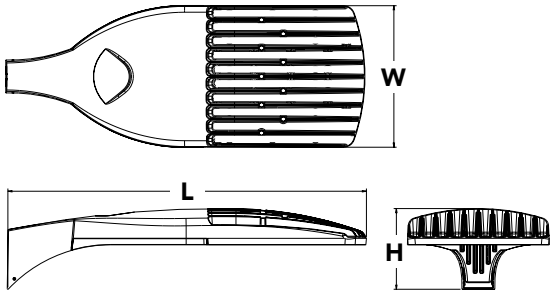
Notes:

Type: B

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

EPA:	1.01 ft² (0.09 m²)
Length:	33″ (83.8 cm)
Width:	13″ (33.0 cm)
Height:	7-1/2″ (19.0 cm)
Weight (max):	27 lbs (12.2 kg)



A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability1
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background[1]

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: Link to Roam; Link to DTL DLL

A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: DSX1 LED P7 40K T3M MVOLT SPA DDBXD

DSX1LED

Series
DSX1 LED

LEDs
Forward optics
P1 P4 P7
P2 P5 P8
P3 P6 P9
Rotated optics
P10[1] P12[1]
P11[1] P13[1]

Color temperature
30K 3000 K
40K 4000 K
50K 5000 K
AMBPC Amber phosphor converted[2]

Distribution
T1S Type I short
T2S Type II short
T2M Type II medium
T3S Type III short
T3M Type III medium
T4M Type IV medium
TFTM Forward throw medium
T5VS Type V very short
T5S Type V short
T5M Type V medium
T5W Type V wide
BLC Backlight control[2,3]
LCCO Left corner cutoff[2,3]
RCCO Right corner cutoff[2,3]

Voltage
MVOLT[4,5]
120[6]
208[5,6]
240[5,6]
277[6]
347[5,6,7]
480[5,6,7]

Mounting
Shipped included
SPA Square pole mounting
RPA Round pole mounting
WBA Wall bracket
SPUMBA Square pole universal mounting adaptor[8]
RPUMBA Round pole universal mounting adaptor[8]
Shipped separately
KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish)[9]

Control options
Shipped installed
NLTAIR2 nLight AIR generation 2 enabled[10]
PER NEMA twist-lock receptacle only (controls ordered separate)[11]
PER5 Five-wire receptacle only (controls ordered separate)[11,12]
PER7 Seven-wire receptacle only (controls ordered separate)[11,12]
DMG 0-10V dimming extend out back of housing for external control (leads exit fixture)
DS Dual switching[13,14]
PIR Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc[5,15,16]
PIRH Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc[5,15,16]
PIRHN Network, Bi-Level motion/ambient sensor[17]
PIR1FC3V Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc[5,15,16]
PIRH1FC3V Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc[5,15,16]
BL30 Bi-level switched dimming, 30%[5,14,18]
BL50 Bi-level switched dimming, 50%[5,14,18]
PNMTDD3 Part night, dim till dawn[5,19]
PNMT5D3 Part night, dim 5 hrs[5,19]
PNMT6D3 Part night, dim 6 hrs[5,19]
PNMT7D3 Part night, dim 7 hrs[5,19]
FAO Field adjustable output[20]

Other options
Shipped installed
HS House-side shield[21]
SF Single fuse (120, 277, 347V)[6]
DF Double fuse (208, 240, 480V)[6]
L90 Left rotated optics[1]
R90 Right rotated optics[1]
Shipped separately
BS Bird spikes[22]
EGS External glare shield[22]

Finish *(required)*
DDBXD Dark bronze
DBLXD Black
DNAXD Natural aluminum
DWHXD White
DDBTXD Textured dark bronze
DBLBXD Textured black
DNATXD Textured natural aluminum
DWHGXD Textured white

Ordering Information

Accessories

Ordered and shipped separately.

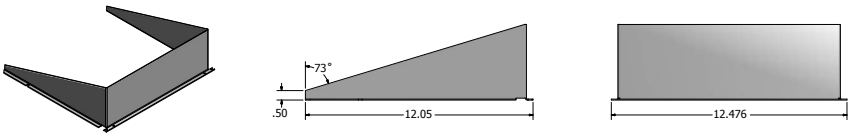
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [23]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [23]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) [23]
DSHORT SBK U	Shorting cap [23]
DSX1HS 30C U	House-side shield for 30 LED unit[21]
DSX1HS 40C U	House-side shield for 40 LED unit[21]
DSX1HS 60C U	House-side shield for 60 LED unit[21]
PUMBA DDBXD U*	Square and round pole universal mounting bracket (specify finish)[24]
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) [8]

For more control options, visit DTL and ROAM online.

NOTES

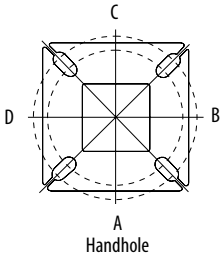
1 P10, P11, P12 or P13 and rotated optics (L90, R90) only available together.
2 AMBPC is not available with BLC, LCCO, RCCO or P4, P7, P8, P9 or P13.
3 Not available with HS.
4 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
5 Any PIRx with BL30, BL50 or PNMT, is not available with 208V, 240V, 347V, 480V or MVOLT. It is only available in 120V or 277V specified.
6 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
7 Not available in P1 or P10. Not available with BL30, BL50 or PNMT options.
8 Existing drilled pole only. Available as a separate combination accessory; for retrofit use only: PUMBA (finish) U; 1.5 G vibration load rating per ANCI C136.31.
9 Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
10 Must be ordered with PIRHN.
11 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting cap included.
12 If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Not available with DCR. Node with integral dimming. Shorting cap included.
13 Provides 50/50fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH. Not available P1, P2, P3 or P4.
14 Requires (2) separately switched circuits.
15 Reference Motion Sensor table on page 3.
16 Reference PER table on page 3 to see functionality.
17 Must be ordered with NLTAIR2. For more information on nLight Air 2 visit this link.
18 Not available with 347V, 480V, PNMT, DS. For PER5 or PER7, see PER Table on page 3. Requires isolated neutral.
19 Not available with 347V, 480V, DS, BL30, BL50. For PER5 or PER7, see PER Table on page 3. Separate Dusk to Dawn required.
20 Not available with other dimming controls options
21 Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
22 Must be ordered with fixture for factory pre-drilling.
23 Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table on page 3.
24 For retrofit use only.

External Glare Shield

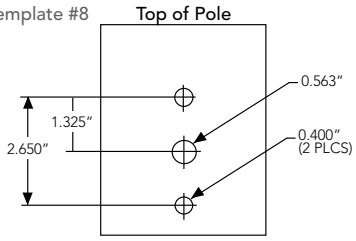


Drilling

HANDHOLE ORIENTATION



Template #8



Tenon Mounting Slipfitter **

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

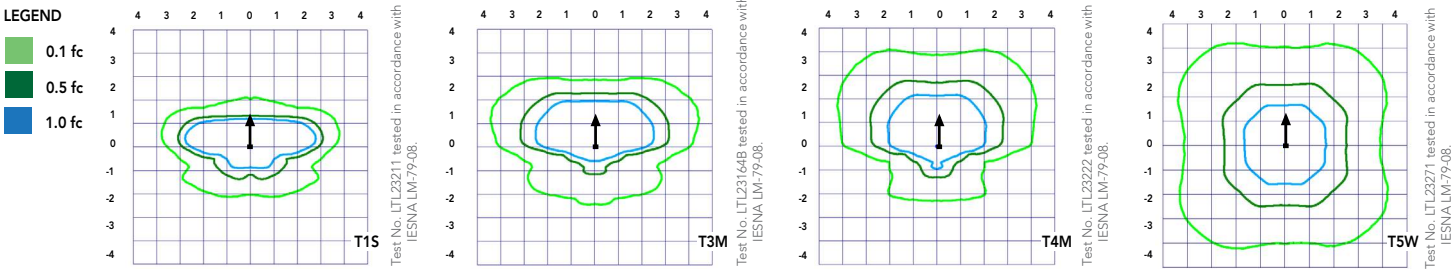
Pole drilling nomenclature: # of heads at degree from handhole (default side A)					
DM19AS	DM28AS	DM29AS	DM32AS	DM39AS	DM49AS
1 @ 90°	2 @ 280°	2 @ 90°	3 @ 120°	3 @ 90°	4 @ 90°
Side B	Side B & D	Side B & C	Round pole only	Side B, C, & D	Sides A, B, C, D
Note: Review luminaire spec sheet for specific nomenclature					

Pole top or tenon O.D.	4.5" @ 90°	4" @ 90°	3.5" @ 90°	3" @ 90°	4.5" @ 120°	4" @ 120°	3.5" @ 120°	3" @ 120°
DSX SPA	Y	Y	Y	N	-	-	-	-
DSX RPA	Y	Y	N	N	Y	Y	Y	Y
DSX SPUMBA	Y	N	N	N	-	-	-	-
DSX RPUMBA	N	N	N	N	Y	Y	Y	N
					*3 fixtures @120 require round pole top/tenon.			

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Area Size 1 homepage.

Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (25').



Performance Data

Lumen Ambient Temperature (LAT) Multipliers

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

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

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

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

Operating Hours	0	25000	50000	100000
Lumen Maintenance Factor	1.00	0.96	0.92	0.85

Electrical Load

					Current (A)					
	Performance Package	LED Count	Drive Current	Wattage	120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	30	530	54	0.45	0.26	0.23	0.19	0.10	0.12
	P2	30	700	70	0.59	0.34	0.30	0.25	0.20	0.16
	P3	30	1050	102	0.86	0.50	0.44	0.38	0.30	0.22
	P4	30	1250	125	1.06	0.60	0.52	0.46	0.37	0.27
	P5	30	1400	138	1.16	0.67	0.58	0.51	0.40	0.29
	P6	40	1250	163	1.36	0.78	0.68	0.59	0.47	0.34
	P7	40	1400	183	1.53	0.88	0.76	0.66	0.53	0.38
	P8	60	1050	207	1.74	0.98	0.87	0.76	0.64	0.49
	P9	60	1250	241	2.01	1.16	1.01	0.89	0.70	0.51
Rotated Optics (Requires L90 or R90)	P10	60	530	106	0.90	0.52	0.47	0.43	0.33	0.27
	P11	60	700	137	1.15	0.67	0.60	0.53	0.42	0.32
	P12	60	1050	207	1.74	0.99	0.87	0.76	0.60	0.46
	P13	60	1250	231	1.93	1.12	0.97	0.86	0.67	0.49

Motion Sensor Default Settings						
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min
*for use with Inline Dusk to Dawn or timer.						

PER Table						
Control	PER (3 wire)	PER5 (5 wire)		PER7 (7 wire)		
			Wire 4/Wire5		Wire 4/Wire5	Wire 6/Wire7
Photocontrol Only (On/Off)	✔	⚠	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM	⊘	✔	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM with Motion (ROAM on/off only)	⊘	⚠	Wires Capped inside fixture	⚠	Wires Capped inside fixture	Wires Capped inside fixture
Future-proof*	⊘	⚠	Wired to dimming leads on driver	✔	Wired to dimming leads on driver	Wires Capped inside fixture
Future-proof* with Motion	⊘	⚠	Wires Capped inside fixture	✔	Wires Capped inside fixture	Wires Capped inside fixture

✔ Recommended
⊘ Will not work
⚠ Alternate

*Future-proof means: Ability to change controls in the future.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)					AMBPC (Amber Phosphor Converted)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
30	530	P1	54W	T1S	6,457	2	0	2	120	6,956	2	0	2	129	7,044	2	0	2	130	3,640	1	0	1	70
				T2S	6,450	2	0	2	119	6,949	2	0	2	129	7,037	2	0	2	130	3,813	1	0	1	73
				T2M	6,483	1	0	1	120	6,984	2	0	2	129	7,073	2	0	2	131	3,689	1	0	1	71
				T3S	6,279	2	0	2	116	6,764	2	0	2	125	6,850	2	0	2	127	3,770	1	0	1	73
				T3M	6,468	1	0	2	120	6,967	1	0	2	129	7,056	1	0	2	131	3,752	1	0	1	72
				T4M	6,327	1	0	2	117	6,816	1	0	2	126	6,902	1	0	2	128	3,758	1	0	1	72
				TFTM	6,464	1	0	2	120	6,963	1	0	2	129	7,051	1	0	2	131	3,701	1	0	1	71
				T5VS	6,722	2	0	0	124	7,242	3	0	0	134	7,334	3	0	0	136	3,928	2	0	0	76
				T5S	6,728	2	0	1	125	7,248	2	0	1	134	7,340	2	0	1	136	3,881	2	0	0	75
				T5M	6,711	3	0	1	124	7,229	3	0	1	134	7,321	3	0	2	136	3,930	2	0	1	76
				T5W	6,667	3	0	2	123	7,182	3	0	2	133	7,273	3	0	2	135	3,820	3	0	1	73
				BLC	5,299	1	0	1	98	5,709	1	0	2	106	5,781	1	0	2	107					
				LCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80					
				RCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80					
30	700	P2	70W	T1S	8,249	2	0	2	118	8,886	2	0	2	127	8,999	2	0	2	129	4,561	1	0	1	67
				T2S	8,240	2	0	2	118	8,877	2	0	2	127	8,989	2	0	2	128	4,777	1	0	1	70
				T2M	8,283	2	0	2	118	8,923	2	0	2	127	9,036	2	0	2	129	4,622	1	0	2	68
				T3S	8,021	2	0	2	115	8,641	2	0	2	123	8,751	2	0	2	125	4,724	1	0	1	69
				T3M	8,263	2	0	2	118	8,901	2	0	2	127	9,014	2	0	2	129	4,701	1	0	2	69
				T4M	8,083	2	0	2	115	8,708	2	0	2	124	8,818	2	0	2	126	4,709	1	0	2	69
				TFTM	8,257	2	0	2	118	8,896	2	0	2	127	9,008	2	0	2	129	4,638	1	0	2	68
				T5VS	8,588	3	0	0	123	9,252	3	0	0	132	9,369	3	0	0	134	4,922	2	0	0	72
				T5S	8,595	3	0	1	123	9,259	3	0	1	132	9,376	3	0	1	134	4,863	2	0	0	72
				T5M	8,573	3	0	2	122	9,236	3	0	2	132	9,353	3	0	2	134	4,924	3	0	1	72
				T5W	8,517	3	0	2	122	9,175	4	0	2	131	9,291	4	0	2	133	4,787	3	0	1	70
				BLC	6,770	1	0	2	97	7,293	1	0	2	104	7,386	1	0	2	106					
				LCCO	5,038	1	0	2	72	5,427	1	0	2	78	5,496	1	0	2	79					
				RCCO	5,038	1	0	2	72	5,427	1	0	2	78	5,496	1	0	2	79					
30	1050	P3	102W	T1S	11,661	2	0	2	114	12,562	3	0	3	123	12,721	3	0	3	125					
				T2S	11,648	2	0	2	114	12,548	3	0	3	123	12,707	3	0	3	125					
				T2M	11,708	2	0	2	115	12,613	2	0	2	124	12,773	2	0	2	125					
				T3S	11,339	2	0	2	111	12,215	3	0	3	120	12,370	3	0	3	121					
				T3M	11,680	2	0	2	115	12,582	2	0	2	123	12,742	2	0	2	125					
				T4M	11,426	2	0	3	112	12,309	2	0	3	121	12,465	2	0	3	122					
				TFTM	11,673	2	0	2	114	12,575	2	0	3	123	12,734	2	0	3	125					
				T5VS	12,140	3	0	1	119	13,078	3	0	1	128	13,244	3	0	1	130					
				T5S	12,150	3	0	1	119	13,089	3	0	1	128	13,254	3	0	1	130					
				T5M	12,119	4	0	2	119	13,056	4	0	2	128	13,221	4	0	2	130					
				T5W	12,040	4	0	3	118	12,970	4	0	3	127	13,134	4	0	3	129					
				BLC	9,570	1	0	2	94	10,310	1	0	2	101	10,440	1	0	2	102					
				LCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76					
				RCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76					
30	1250	P4	125W	T1S	13,435	3	0	3	107	14,473	3	0	3	116	14,657	3	0	3	117					
				T2S	13,421	3	0	3	107	14,458	3	0	3	116	14,641	3	0	3	117					
				T2M	13,490	2	0	2	108	14,532	3	0	3	116	14,716	3	0	3	118					
				T3S	13,064	3	0	3	105	14,074	3	0	3	113	14,252	3	0	3	114					
				T3M	13,457	2	0	2	108	14,497	2	0	2	116	14,681	2	0	2	117					
				T4M	13,165	2	0	3	105	14,182	2	0	3	113	14,362	2	0	3	115					
				TFTM	13,449	2	0	3	108	14,488	2	0	3	116	14,672	2	0	3	117					
				T5VS	13,987	4	0	1	112	15,068	4	0	1	121	15,259	4	0	1	122					
				T5S	13,999	3	0	1	112	15,080	3	0	1	121	15,271	3	0	1	122					
				T5M	13,963	4	0	2	112	15,042	4	0	2	120	15,233	4	0	2	122					
				T5W	13,872	4	0	3	111	14,944	4	0	3	120	15,133	4	0	3	121					
				BLC	11,027	1	0	2	88	11,879	1	0	2	95	12,029	1	0	2	96					
				LCCO	8,205	1	0	3	66	8,839	1	0	3	71	8,951	1	0	3	72					
				RCCO	8,205	1	0	3	66	8,839	1	0	3	71	8,951	1	0	3	72					
30	1400	P5	138W	T1S	14,679	3	0	3	106	15,814	3	0	3	115	16,014	3	0	3	116					
				T2S	14,664	3	0	3	106	15,797	3	0	3	114	15,997	3	0	3	116					
				T2M	14,739	3	0	3	107	15,878	3	0	3	115	16,079	3	0	3	117					
				T3S	14,274	3	0	3	103	15,377	3	0	3	111	15,572	3	0	3	113					
				T3M	14,704	2	0	3	107	15,840	3	0	3	115	16,040	3	0	3	116					
				T4M	14,384	2	0	3	104	15,496	3	0	3	112	15,692	3	0	3	114					
				TFTM	14,695	2	0	3	106	15,830	3	0	3	115	16,030	3	0	3	116					
				T5VS	15,283	4	0	1	111	16,464	4	0	1	119	16,672	4	0	1	121					
				T5S	15,295	3	0	1	111	16,477	4	0	1	119	16,686	4	0	1	121					
				T5M	15,257	4	0	2	111	16,435	4	0	2	119	16,644	4	0	2	121					
				T5W	15,157	4	0	3	110	16,328	4	0	3	118	16,534	4	0	3	120					
				BLC	12,048	1	0	2	87	12,979	1	0	2	94	13,143	1	0	2	95					
				LCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71					
					8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71					

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)					AMBPC (Amber Phosphor Converted)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
40	1250	**P6**	163W	T1S	17,654	3	0	3	108	19,018	3	0	3	117	19,259	3	0	3	118					
				T2S	17,635	3	0	3	108	18,998	3	0	3	117	19,238	3	0	3	118					
				T2M	17,726	3	0	3	109	19,096	3	0	3	117	19,337	3	0	3	119					
				T3S	17,167	3	0	3	105	18,493	3	0	3	113	18,727	3	0	3	115					
				T3M	17,683	3	0	3	108	19,049	3	0	3	117	19,290	3	0	3	118					
				T4M	17,299	3	0	3	106	18,635	3	0	4	114	18,871	3	0	4	116					
				TFTM	17,672	3	0	3	108	19,038	3	0	4	117	19,279	3	0	4	118					
				T5VS	18,379	4	0	1	113	19,800	4	0	1	121	20,050	4	0	1	123					
				T5S	18,394	4	0	2	113	19,816	4	0	2	122	20,066	4	0	2	123					
				T5M	18,348	4	0	2	113	19,766	4	0	2	121	20,016	4	0	2	123					
				T5W	18,228	5	0	3	112	19,636	5	0	3	120	19,885	5	0	3	122					
				BLC	14,489	2	0	2	89	15,609	2	0	3	96	15,806	2	0	3	97					
				LCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72					
				RCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72					
40	1400	**P7**	183W	T1S	19,227	3	0	3	105	20,712	3	0	3	113	20,975	3	0	3	115					
				T2S	19,206	3	0	3	105	20,690	3	0	3	113	20,952	3	0	3	114					
				T2M	19,305	3	0	3	105	20,797	3	0	3	114	21,060	3	0	3	115					
				T3S	18,696	3	0	3	102	20,141	3	0	3	110	20,396	3	0	4	111					
				T3M	19,258	3	0	3	105	20,746	3	0	3	113	21,009	3	0	3	115					
				T4M	18,840	3	0	4	103	20,296	3	0	4	111	20,553	3	0	4	112					
				TFTM	19,246	3	0	4	105	20,734	3	0	4	113	20,996	3	0	4	115					
				T5VS	20,017	4	0	1	109	21,564	4	0	1	118	21,837	4	0	1	119					
				T5S	20,033	4	0	2	109	21,581	4	0	2	118	21,854	4	0	2	119					
				T5M	19,983	4	0	2	109	21,527	5	0	3	118	21,799	5	0	3	119					
				T5W	19,852	5	0	3	108	21,386	5	0	3	117	21,656	5	0	3	118					
				BLC	15,780	2	0	3	86	16,999	2	0	3	93	17,214	2	0	3	94					
				LCCO	11,742	2	0	3	64	12,649	2	0	3	69	12,809	2	0	3	70					
				RCCO	11,742	2	0	3	64	12,649	2	0	3	69	12,809	2	0	3	70					
60	1050	**P8**	207W	T1S	22,490	3	0	3	109	24,228	3	0	3	117	24,535	3	0	3	119					
				T2S	22,466	3	0	4	109	24,202	3	0	4	117	24,509	3	0	4	118					
				T2M	22,582	3	0	3	109	24,327	3	0	3	118	24,635	3	0	3	119					
				T3S	21,870	3	0	4	106	23,560	3	0	4	114	23,858	3	0	4	115					
				T3M	22,527	3	0	4	109	24,268	3	0	4	117	24,575	3	0	4	119					
				T4M	22,038	3	0	4	106	23,741	3	0	4	115	24,041	3	0	4	116					
				TFTM	22,513	3	0	4	109	24,253	3	0	4	117	24,560	3	0	4	119					
				T5VS	23,415	5	0	1	113	25,224	5	0	1	122	25,543	5	0	1	123					
				T5S	23,434	4	0	2	113	25,244	4	0	2	122	25,564	4	0	2	123					
				T5M	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123					
				T5W	23,221	5	0	4	112	25,016	5	0	4	121	25,332	5	0	4	122					
				BLC	18,458	2	0	3	89	19,885	2	0	3	96	20,136	2	0	3	97					
				LCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72					
				RCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72					
60	1250	**P9**	241W	T1S	25,575	3	0	3	106	27,551	3	0	3	114	27,900	3	0	3	116					
				T2S	25,548	3	0	4	106	27,522	3	0	4	114	27,871	3	0	4	116					
				T2M	25,680	3	0	3	107	27,664	3	0	3	115	28,014	3	0	3	116					
				T3S	24,870	3	0	4	103	26,791	3	0	4	111	27,130	3	0	4	113					
				T3M	25,617	3	0	4	106	27,597	3	0	4	115	27,946	3	0	4	116					
				T4M	25,061	3	0	4	104	26,997	3	0	4	112	27,339	3	0	4	113					
				TFTM	25,602	3	0	4	106	27,580	3	0	4	114	27,929	3	0	4	116					
				T5VS	26,626	5	0	1	110	28,684	5	0	1	119	29,047	5	0	1	121					
				T5S	26,648	4	0	2	111	28,707	5	0	2	119	29,070	5	0	2	121					
				T5M	26,581	5	0	3	110	28,635	5	0	3	119	28,997	5	0	3	120					
				T5W	26,406	5	0	4	110	28,447	5	0	4	118	28,807	5	0	4	120					
				BLC	20,990	2	0	3	87	22,612	2	0	3	94	22,898	2	0	3	95					
				LCCO	15,619	2	0	4	65	16,825	2	0	4	70	17,038	2	0	4	71					
					15,619	2	0	4	65	16,825	2	0	4	70	17,038	2	0	4	71					

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Rotated Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)					AMBPC (Amber Phosphor Converted)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
60	530	**P10**	106W	T1S	13,042	3	0	3	123	14,050	3	0	3	133	14,228	3	0	3	134	7,167	2	0	2	72
				T2S	12,967	4	0	4	122	13,969	4	0	4	132	14,146	4	0	4	133	7,507	2	0	2	76
				T2M	13,201	3	0	3	125	14,221	3	0	3	134	14,401	3	0	3	136	7,263	2	0	2	73
				T3S	12,766	4	0	4	120	13,752	4	0	4	130	13,926	4	0	4	131	7,424	2	0	2	75
				T3M	13,193	4	0	4	124	14,213	4	0	4	134	14,393	4	0	4	136	7,387	2	0	2	75
				T4M	12,944	4	0	4	122	13,945	4	0	4	132	14,121	4	0	4	133	7,400	2	0	2	75
				TFTM	13,279	4	0	4	125	14,305	4	0	4	135	14,486	4	0	4	137	7,288	1	0	2	74
				T5VS	13,372	3	0	1	126	14,405	4	0	1	136	14,588	4	0	1	138	7,734	3	0	1	78
				T5S	13,260	3	0	1	125	14,284	3	0	1	135	14,465	3	0	1	136	7,641	3	0	0	77
				T5M	13,256	4	0	2	125	14,281	4	0	2	135	14,462	4	0	2	136	7,737	3	0	2	78
				T5W	13,137	4	0	3	124	14,153	4	0	3	134	14,332	4	0	3	135	7,522	3	0	2	76
				BLC	10,906	3	0	3	103	11,749	3	0	3	111	11,898	3	0	3	112					
				LCCO	7,789	1	0	3	73	8,391	1	0	3	79	8,497	1	0	3	80					
				RCCO	7,779	4	0	4	73	8,380	4	0	4	79	8,486	4	0	4	80					
60	700	**P11**	137W	T1S	16,556	3	0	3	121	17,835	3	0	3	130	18,061	4	0	4	132	8,952	2	0	2	68
				T2S	16,461	4	0	4	120	17,733	4	0	4	129	17,957	4	0	4	131	9,377	2	0	2	72
				T2M	16,758	4	0	4	122	18,053	4	0	4	132	18,281	4	0	4	133	9,072	2	0	2	69
				T3S	16,205	4	0	4	118	17,457	4	0	4	127	17,678	4	0	4	129	9,273	2	0	2	71
				T3M	16,748	4	0	4	122	18,042	4	0	4	132	18,271	4	0	4	133	9,227	2	0	2	70
				T4M	16,432	4	0	4	120	17,702	4	0	4	129	17,926	4	0	4	131	9,243	2	0	2	71
				TFTM	16,857	4	0	4	123	18,159	4	0	4	133	18,389	4	0	4	134	9,103	2	0	2	69
				T5VS	16,975	4	0	1	124	18,287	4	0	1	133	18,518	4	0	1	135	9,661	3	0	1	74
				T5S	16,832	4	0	1	123	18,133	4	0	2	132	18,362	4	0	2	134	9,544	3	0	1	73
				T5M	16,828	4	0	2	123	18,128	4	0	2	132	18,358	4	0	2	134	9,665	3	0	2	74
				T5W	16,677	4	0	3	122	17,966	5	0	3	131	18,193	5	0	3	133	9,395	4	0	2	72
				BLC	13,845	3	0	3	101	14,915	3	0	3	109	15,103	3	0	3	110					
				LCCO	9,888	1	0	3	72	10,652	2	0	3	78	10,787	2	0	3	79					
				RCCO	9,875	4	0	4	72	10,638	4	0	4	78	10,773	4	0	4	79					
60	1050	**P12**	207W	T1S	22,996	4	0	4	111	24,773	4	0	4	120	25,087	4	0	4	121					
				T2S	22,864	4	0	4	110	24,631	5	0	5	119	24,943	5	0	5	120					
				T2M	23,277	4	0	4	112	25,075	4	0	4	121	25,393	4	0	4	123					
				T3S	22,509	4	0	4	109	24,248	5	0	5	117	24,555	5	0	5	119					
				T3M	23,263	4	0	4	112	25,061	4	0	4	121	25,378	4	0	4	123					
				T4M	22,824	5	0	5	110	24,588	5	0	5	119	24,899	5	0	5	120					
				TFTM	23,414	5	0	5	113	25,223	5	0	5	122	25,543	5	0	5	123					
				T5VS	23,579	5	0	1	114	25,401	5	0	1	123	25,722	5	0	1	124					
				T5S	23,380	4	0	2	113	25,187	4	0	2	122	25,506	4	0	2	123					
				T5M	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123					
				T5W	23,165	5	0	4	112	24,955	5	0	4	121	25,271	5	0	4	122					
				BLC	19,231	4	0	4	93	20,717	4	0	4	100	20,979	4	0	4	101					
				LCCO	13,734	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72					
				RCCO	13,716	4	0	4	66	14,776	4	0	4	71	14,963	4	0	4	72					
60	1250	**P13**	231W	T1S	25,400	4	0	4	110	27,363	4	0	4	118	27,709	4	0	4	120					
				T2S	25,254	5	0	5	109	27,205	5	0	5	118	27,550	5	0	5	119					
				T2M	25,710	4	0	4	111	27,696	4	0	4	120	28,047	4	0	4	121					
				T3S	24,862	5	0	5	108	26,783	5	0	5	116	27,122	5	0	5	117					
				T3M	25,695	5	0	5	111	27,680	5	0	5	120	28,031	5	0	5	121					
				T4M	25,210	5	0	5	109	27,158	5	0	5	118	27,502	5	0	5	119					
				TFTM	25,861	5	0	5	112	27,860	5	0	5	121	28,212	5	0	5	122					
				T5VS	26,043	5	0	1	113	28,056	5	0	1	121	28,411	5	0	1	123					
				T5S	25,824	4	0	2	112	27,819	5	0	2	120	28,172	5	0	2	122					
				T5M	25,818	5	0	3	112	27,813	5	0	3	120	28,165	5	0	3	122					
				T5W	25,586	5	0	4	111	27,563	5	0	4	119	27,912	5	0	4	121					
				BLC	21,241	4	0	4	92	22,882	4	0	4	99	23,172	4	0	4	100					
				LCCO	15,170	2	0	4	66	16,342	2	0	4	71	16,549	2	0	4	72					
					15,150	5	0	5	66	16,321	5	0	5	71	16,527	5	0	5	72					

FEATURES & SPECIFICATIONS

INTENDED USE
The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION
Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.01 ft^2) for optimized pole wind loading.

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS
Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION
Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 1 utilizes the AERIS™ series pole drilling pattern (template #8). Optional terminal block and NEMA photocontrol receptacle are also available.

LISTINGS
UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

WARRANTY
5-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

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