




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: January 10, 2019

From: Cassie Harashe 
Planner

Location: A 1.4 acre tract of land located at the northeast corner of the intersection of Chesterfield Parkway West and Hilltown Village Center.

Description: **Chesterfield Ridge Center, Parcel VIII, Building Group I Lot A (Kiddie Academy)**: A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 1.4 acre tract of land zoned "C-8" Planned Commercial District located at the northeast corner of the intersection of Chesterfield Parkway West and Hilltown Village Center.

PROPOSAL SUMMARY

The request is for a 12,000 square foot daycare facility located at the northeast corner of the intersection of Chesterfield Parkway West and Hilltown Village Center. The subject site is zoned "C-8" Planned Commercial District and is governed under the terms and conditions of City of Chesterfield Ordinance Number 3026. The exterior building materials will primarily consist of brick with stone and EIFS accents. Rooftop-mounted mechanical equipment will be screened within the mechanical roof pit of the building's mansard roof and a trash enclosure will be six feet in height and match the color of the brick materials of the building's façade.

HISTORY OF SUBJECT SITE

The northwest and southwest quadrants of Olive / Clarkson and I-64 were included in the original presentation to the St. Louis County Planning Commission in 1971 to initiate development of Chesterfield Village. Prior to 1971, the land use and zoning pattern in the quadrants were "NU" and "R-3" with small commercial areas established adjacent to the offset intersections of Olive and Clarkson Roads with Highway 40 (now I-64). Commercial uses included four service stations, a small grocery store, a development company office, and a bank.

In 1971, Sachs Properties submitted fifteen separate petitions to initiate the development of Chesterfield Village. In 1979, Chesterfield Village Inc. submitted five new petitions covering a total of 197.8 acres in the northwest quadrant. Two general areas of “C-8” zoning were proposed, one along the north side of Highway 40 and the other surrounding the existing Hilltown Center. The 43.3 acres along Highway 40 would include 1,000,000 square feet of floor area being primarily offices, a hotel, theater, professional laboratories and schools. The 39.7 acres near Hilltown Center would include 500,000 square feet of building area, 150,000 of which is allocated to the subject area. In May 1998, the Homewood Suites, a 95,293 square foot hotel, was approved by the City of Chesterfield. The hotel is located on the northern portion of the subject site, and leaves 54,707 square feet to be developed. There has been no other development activity in the subject area.

The original petition has been amended several times over the years by both St. Louis County and the City of Chesterfield. In 2012, the City approved Ordinance 2723 which was to amend criteria for Parcel III, Building Groups A and B (this resulted in development of the new world headquarters for Reinsurance Group of America) and resulted in a new ordinance for the entire area. In 2016, an amendment was approved resulting in Ordinance 2916 that allowed for the development of the Pfizer project, currently under construction, across Chesterfield Parkway West from the subject site. Most recently, an Ordinance Amendment was approved by Ordinance 3026 for Parcel VIII, Building Group I that established development criteria for a day care to be developed on Lot A.



Figure 1: Aerial Site Photo

STAFF ANALYSIS

General Requirements for Site Design:

The subject site is located at the northeast corner of the intersection of Chesterfield Parkway West and Hilltown Village Center and is adjacent to commercial retail and service uses to the south across Hilltown Village Center. There is a hotel to the north and the Pfizer Research and Office Building is located to the west across Chesterfield Parkway West. The subject area is designated “Urban Core” within the City of Chesterfield’s Comprehensive Land Use Plan, and the proposed development fits within its surrounding context, as it adjacent to other service, retail, and office establishments.

The location of the proposed building has frontage along both Chesterfield Parkway West and Hilltown Village Center. Chesterfield Parkway is classified as a minor arterial according to the City’s functional classification system, and the south and west façades will be highly visible from a large number of users at the intersection. The east elevation will face future development on Lot B of Chesterfield Ridge Center, Parcel VIII, Building Group I, and the north elevation faces the Homewood Suites Hotel. The west and south elevations are facing Chesterfield Parkway West and Hilltown Village Center, respectively. The west elevation along Chesterfield Parkway West is screened by a 6’ sight proof vinyl fence. This fence is located 30’ from the property line, as outlined in red below. Further, a 4’ black aluminum fence runs inside of the sight proof fence, separates the play area, and continues around the building as shown in blue below.

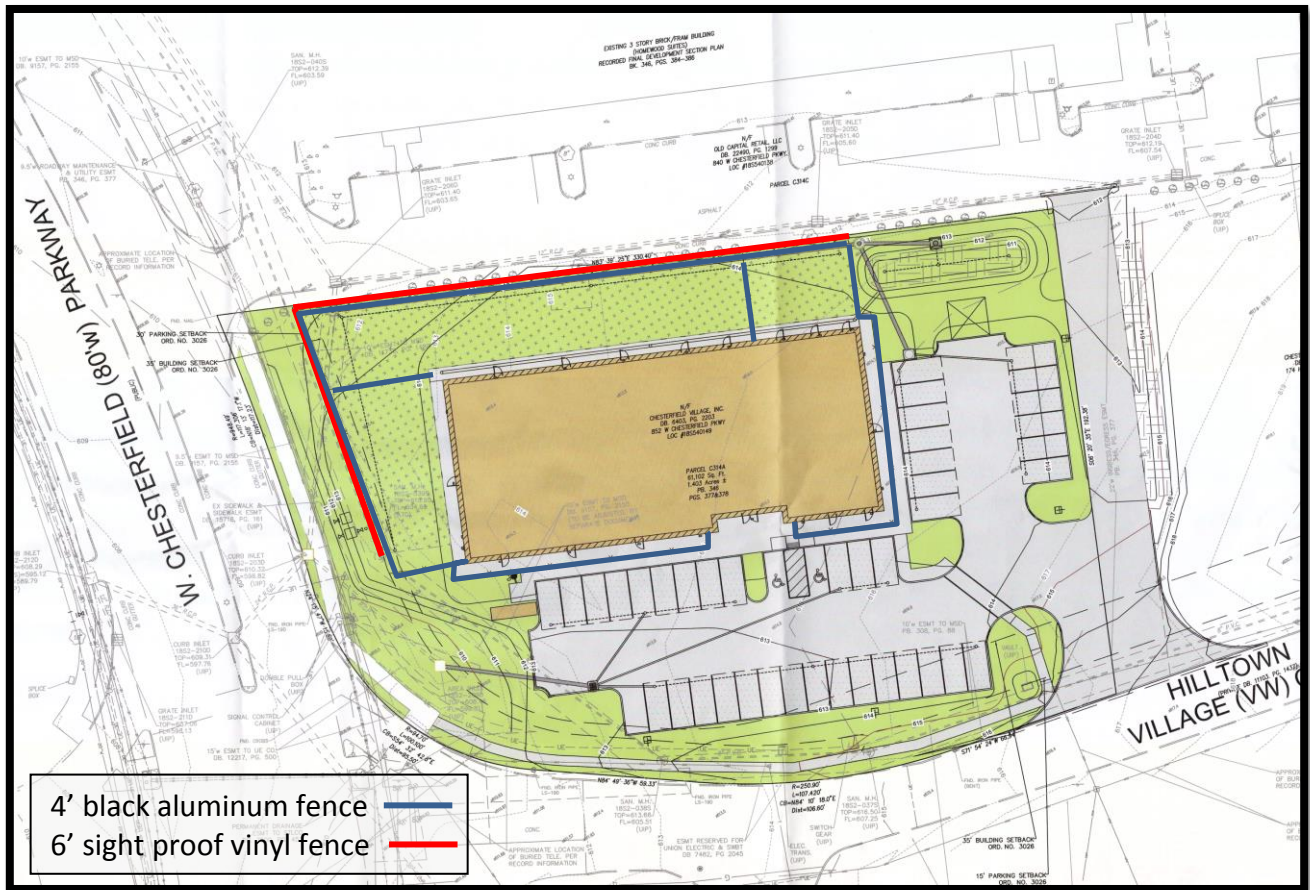


Figure 2: Color Site Development Section Plan

Circulation System and Access

The subject site will be served by a single access point on Hilltown Village Center near the southeast corner of the property. A cross access easement on Lot B of Parcel VIII, Building Group I provides cross access to Lot A and northwards to Lot C, Homewood Suites Hotel. Hilltown Village Center at this point is a privately maintained street. Per the Site Specific Ordinance, no access is permitted to this development from Chesterfield Parkway West. A sidewalk is already installed along the entire frontage on Chesterfield Parkway West, and a new sidewalk is to be installed along Hilltown Village Center as part of this development. Pedestrian access to the development will be provided near the vehicular entrance along Hilltown Village Center. This connection is proposed to extend onto the site across a designated area in the parking lot providing access to the building. There is also an internal sidewalk that circumnavigates the building.

Topography and Parking

The site is generally flat with only a few feet of grade change across the property. Bioretention/infiltration basins will be located northeast of the proposed building. All non-ADA proposed parking spaces are surfaced with porous concrete and are located to the south and east of the site between the building and the frontage of Hilltown Village Center and cross access connection to the east. Two ADA parking spaces are located nearest the primary entrance of the building.

General Requirements for Building Design:

This request is to allow for the development of a 12,000 square foot daycare facility on the subject property. The average roofline is 24' tall with an architectural feature that extends to 33' in height at its highest point and will contain space to provide daycare services up to a capacity of 341 children. An outdoor turf playground area is also proposed along the north and west side of the property to be screened with a 6-foot vinyl fence. There will be an additional four foot fence that circumnavigates the building. The four foot fence continues inside the sight proof fence around the play area and also divides the play area into different play yards for different aged children. The 4' tall fence proposed along the south and east sides of the building provides a secure walking path for the children to leave the classrooms in the front of the building and access to the play areas.

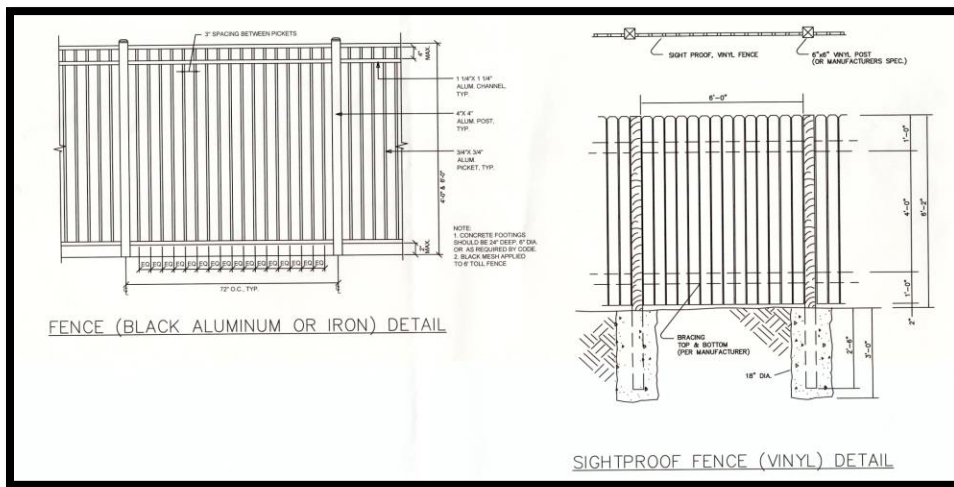


Figure 3: Proposed Fencing Details

A. Scale

The proposed building is a single story with an average height of 24', and 32' 6" in height at its highest point; the maximum building height for this development is 3 floors per the site specific ordinance. The buildings in the Hilltown Village Center to the south are constructed of red brick with off-white EIFS cornices and entablatures with pitched asphalt shingle roofs. The Homewood Suites Hotel to the north is constructed with off-white siding with a brick wainscoting at the ground level; it also has a pitched asphalt shingle roof. The proposed building complements these existing developments, by utilizing red brick, tan accents and a pitched mansard roof.

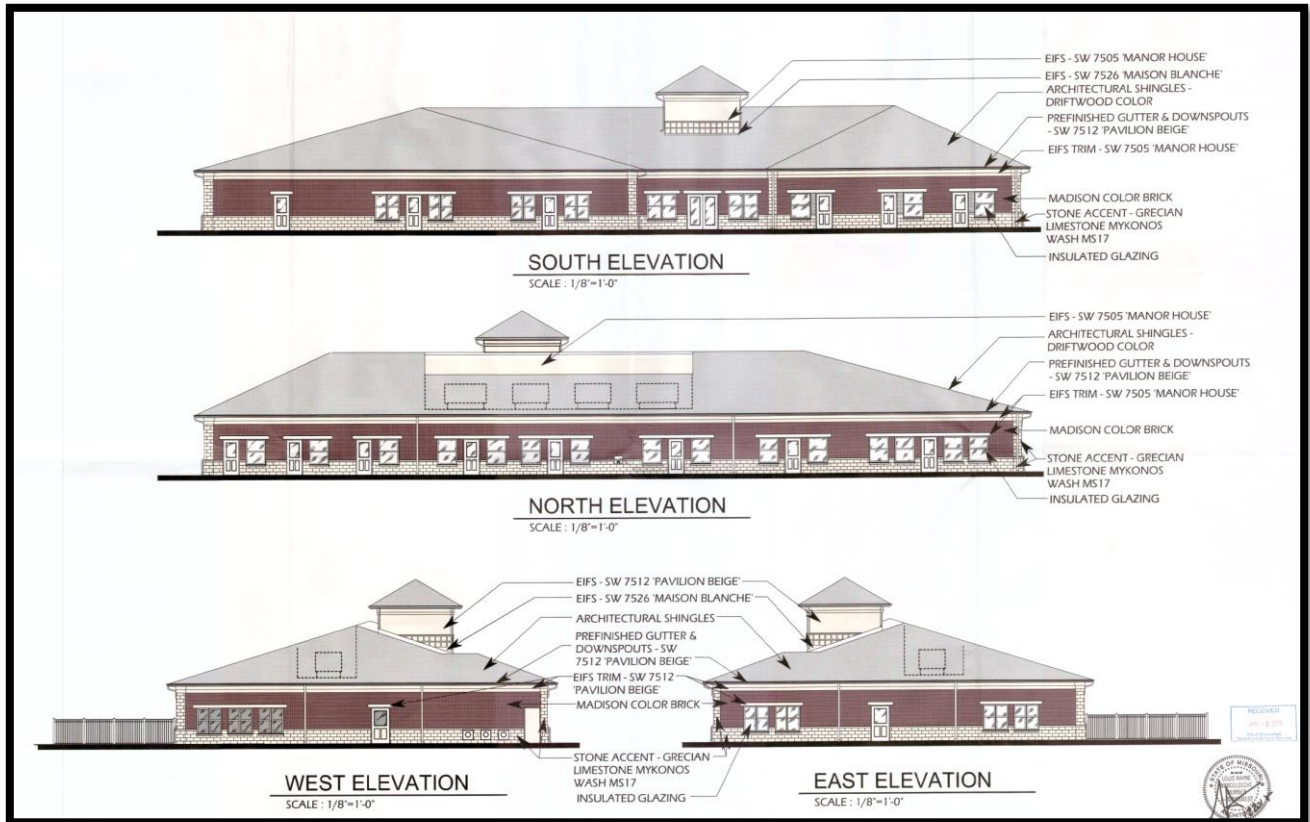


Figure 4: Color Exterior Elevations

B. Design

The Unified Development Code encourages that all façade's be treated similarly in regards to color, materials, architectural form and detailing. The applicant is proposing the primary exterior material of the building of Madison Color brick with EIFS, in three shades, Manor House, Pavilion Beige, and Maison Blanche and stone veneer in Grecian Limestone with Mykonos Wash for accents on all sides of the building. The north and west elevations are screened with a six foot vinyl fence that surrounds the playground space. Other architectural elements and materials of the building's design are included on all elevations, including the architectural asphalt shingles in Driftwood of the surrounding mansard roof. The Unified Development Code discourages linear repetitive streetscapes. The north, west, and east elevations have no articulation, and the south elevation's only articulation is a recess at the main entrance of the building.

The UDC encourages architectural details on facades at street level. The main entrance to the building will be located off of Hilltown Village Center, a privately maintained local street. The rendering point of view is from Hilltown Village near the entrance to the parking lot, again the architectural details of the west elevation along Chesterfield Parkway West, a minor arterial, will be screened by a six foot vinyl fence.



Figure 5: Proposed rendering view looking northwest from the parking lot.

C. Materials and Color

The exterior building materials will primarily consist of a red brick in Madison Color. A stone veneer in Grecian Limestone with Mykonos Wash will be used as an exterior wainscoting and in other accent areas. There is also EIFS trim on all four elevations, the EIFS is Pavilion Beige on the east and west elevations and Manor House on the north and south elevations. The surrounding mansard roof features architectural asphalt shingles in Driftwood, as well as an EIFS tower element, again in Pavilion Beige on the east and west elevations and Manor House on the north and south elevations.

D. Landscape Design and Screening

Several different areas of landscaping are proposed for the site. Street trees are proposed along the site's frontage of both Chesterfield Parkway West and Hilltown Village Center, as well as a landscape buffer. Landscaping is also proposed within the parking lot area, and another small planting area is proposed around the trash enclosure. The parking lot is screened with a hedgerow along the southern side.

The Unified Development Code requires the 30' landscape buffer along Chesterfield Parkway West to be planted with a combination of deciduous trees, evergreen trees, ornamental trees and shrubs and should enhance and preserve native vegetation.

Screening systems for the mechanical units and trash enclosure are proposed to match or be integrated within the building's design. Rooftop-mounted mechanical units are screened within the mechanical roof pit of the gray mansard roof, and the six-foot sight-proof trash enclosure features brick with a tan vinyl door to match the main structure.

The play area that wraps the west and north side of the building will be enclosed by a sight proof tan vinyl fence. However the applicant is also proposing several shade structures in this area that will be 14'8" in height. The applicant has not finalized their playground equipment selections, but they have included several options to give the Board an idea of the size and scope of type of equipment they wish to install for the children.

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 fixtures proposed in the parking area and mounted on the building facades for navigating the site. All proposed exterior lighting will be fully shielded with cut off optics and will be directed down. In total, there are four proposed fixtures in the parking area and twenty-one wall-mounted fixtures across all four elevations of the building. A wall mounted light fixture is proposed above each entry way, with additional lights above the windows on the east and west elevations.

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 Chesterfield Ridge Center, Parcel VIII, Building Group I, Lot A (Kiddie Academy).

MOTION

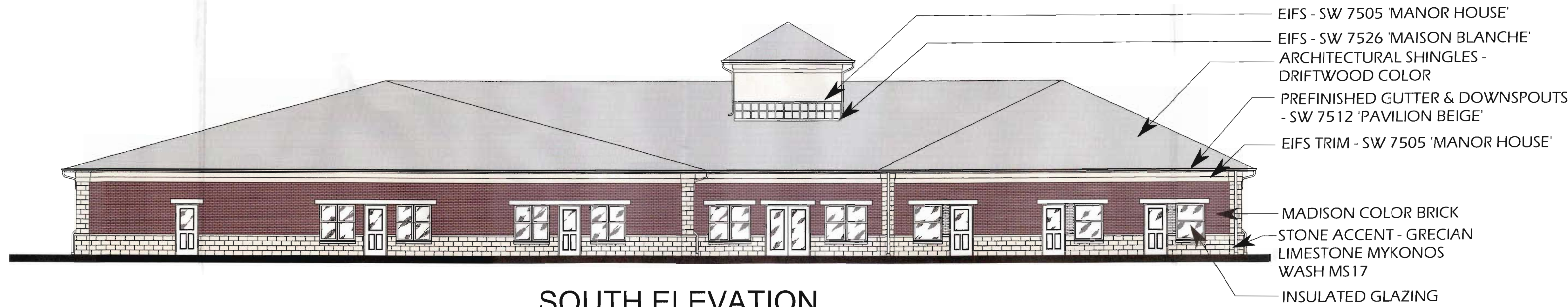
The following options are provided to the Architectural Review Board for consideration relative to this application:

- 1) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for Chesterfield Ridge Center, Parcel VIII, Building Group I, Lot A (Kiddie Academy) as presented, with a recommendation for approval (or denial) to the Planning Commission."
- 2) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for Chesterfield Ridge Center,

Parcel VIII, Building Group I, Lot A (Kiddie Academy) to the Planning Commission with the following recommendations...”

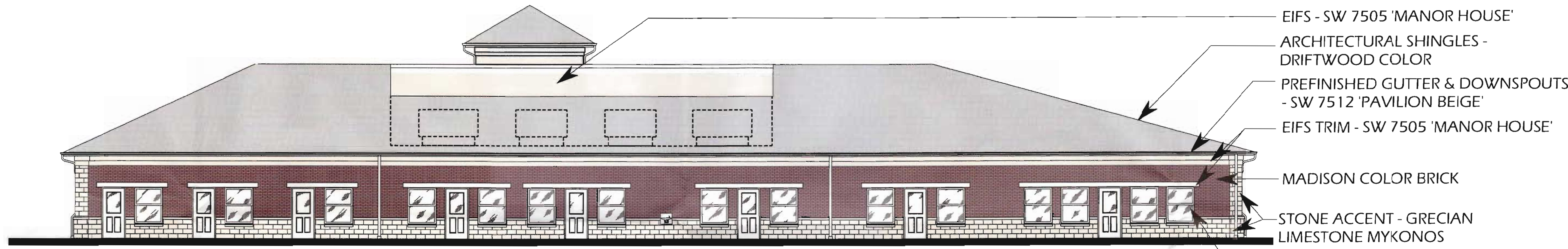
Attachments

1. Architectural Review Packet Submittal



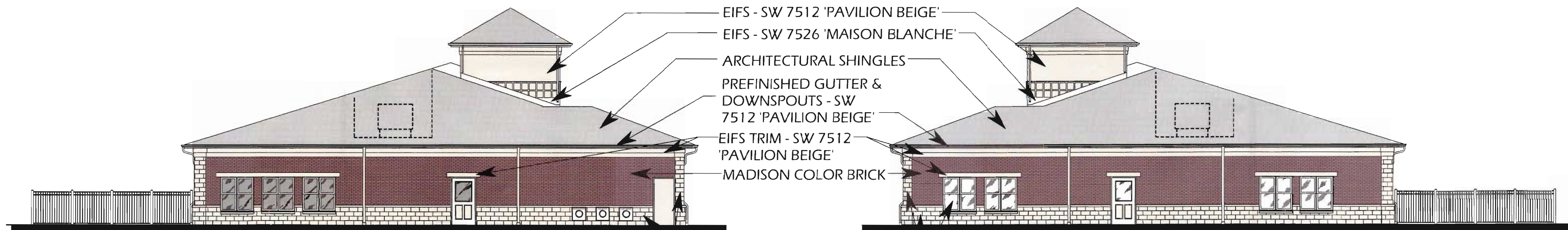
SOUTH ELEVATION
SCALE : 1/8"=1'-0"

- EIFS - SW 7505 'MANOR HOUSE'
- EIFS - SW 7526 'MAISON BLANCHE'
- ARCHITECTURAL SHINGLES - DRIFTWOOD COLOR
- PREFINISHED GUTTER & DOWNSPOUTS - SW 7512 'PAVILION BEIGE'
- EIFS TRIM - SW 7505 'MANOR HOUSE'
- MADISON COLOR BRICK
- STONE ACCENT - GRECIAN LIMESTONE MYKONOS WASH MS17
- INSULATED GLAZING



NORTH ELEVATION
SCALE : 1/8"=1'-0"

- EIFS - SW 7505 'MANOR HOUSE'
- ARCHITECTURAL SHINGLES - DRIFTWOOD COLOR
- PREFINISHED GUTTER & DOWNSPOUTS - SW 7512 'PAVILION BEIGE'
- EIFS TRIM - SW 7505 'MANOR HOUSE'
- MADISON COLOR BRICK
- STONE ACCENT - GRECIAN LIMESTONE MYKONOS WASH MS17
- INSULATED GLAZING



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

EAST ELEVATION
SCALE : 1/8"=1'-0"

- EIFS - SW 7512 'PAVILION BEIGE'
- EIFS - SW 7526 'MAISON BLANCHE'
- ARCHITECTURAL SHINGLES
- PREFINISHED GUTTER & DOWNSPOUTS - SW 7512 'PAVILION BEIGE'
- EIFS TRIM - SW 7512 'PAVILION BEIGE'
- MADISON COLOR BRICK
- STONE ACCENT - GRECIAN LIMESTONE MYKONOS WASH MS17
- INSULATED GLAZING

RECEIVED
JAN - 2 2019
City of Chesterfield
Department of Public Services







View from site looking Northwest



View from site looking Northeast

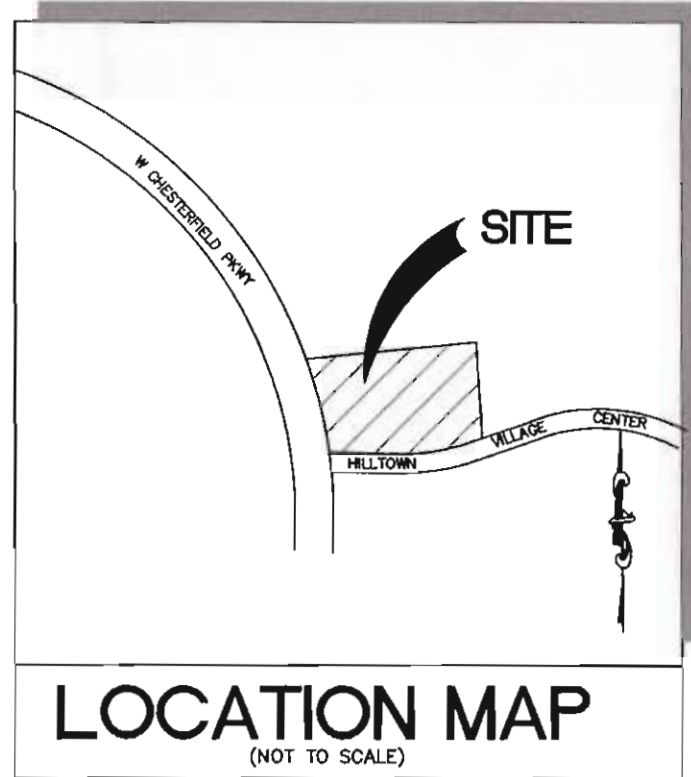


View from site looking Southwest



View from site looking Southeast





OPENSOURCE CALCULATIONS
 TOTAL SITE AREA (LOT C314A): 61,102sf
 BUILDING: 12,000 sf
 VEHICLE PAVEMENT: 20,003 sf
 PERCENT OPENSOURCE: $[(61,102 - (12,000 + 20,003)) / 61,102] \times 100\% = 47.6\%$
 (REQUIRED = 30% MIN)

F.A.R. CALCULATION
 F.A.R. = 12,000 / 61,102 = 0.20
 MAXIMUM = 0.55
BUILDING SETBACKS
 PER ORDINANCE NO. 1268
 FRONT: 20' BUILDING SETBACK
 SIDES: 15' BUILDING SETBACK

PARKING CALCULATIONS
 REQUIRED PARKING (MINIMUM):
 DAY-CARE CENTER 3.0 SPACES PER 1,000 GROSS FLOOR AREA
 (3.0 x 12.0 = 36 SPACES)
 TOTAL PERMITTED (MINIMUM): 36 SPACES
 TOTAL PERMITTED (MAXIMUM):
 DAY-CARE CENTER 4.0 SPACES PER 1,000 GROSS FLOOR AREA
 (4.0 x 12.0 = 48 SPACES)
 TOTAL PERMITTED (MAXIMUM): 48 SPACES
 PROPOSED TOTAL SPACES: 43 SPACES (2 ACCESSIBLE)
 REQUIRED LOADING: NONE

FLOOD NOTE:
 SUBJECT PROPERTY LIES WITHIN FLOOD ZONE "X" (AREA WITH REDUCED FLOOD RISK DUE TO LEVEL) AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN ACCORDING TO THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP FOR ST. LOUIS COUNTY, MISSOURI AND INCORPORATED AREAS. THE MAP IS IDENTIFIED AS MAP NO. 29189C0170K WITH AN EFFECTIVE DATE OF FEBRUARY 4, 2015.

Keller Ventures, LLC, the owner under contract of the property shown on this plan for and in consideration of being granted approval of said plan to develop property under the provisions of Section 03, Chesterfield of City of

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.

by: Keller Ventures, LLC
 STATE OF MISSOURI)
 COUNTY OF ST. LOUIS) ss.

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

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Notarial Seal of my Office in the day and year last above written. (County and State)
 Notary Public
 Print Name
 My commission expires: _____

This Site Development Section Plan was approved by the City of Chesterfield Director of Planning and Development and duly verified on the _____ day of _____, 2018, by the Director, authorizing the recording of this Site Development Section Plan pursuant to Chesterfield Ordinance No. 200, as attested by the Director of Planning and Development Services.

By: Justin Wynn, Director of Planning and Development Services
 City of Chesterfield, MO
 By: Vickie Hass, City Clerk
 City of Chesterfield, MO

DESCRIPTION:
 PARCEL 1:
 LOT C314A OF THE PLAT OF CHESTERFIELD VILLAGE NORTHWEST QUADRANT PARCEL C314 RECORDED IN PLAT BOOK 346, PAGES 377 AND 378, OF THE ST. LOUIS COUNTY, MISSOURI, RECORDS.

PARCEL 2:
 NON-EXCLUSIVE 22 FOOT WIDE INGRESS/EGRESS EASEMENT AS SHOWN ON THE PLAT OF CHESTERFIELD VILLAGE NORTHWEST QUADRANT PARCEL C314 RECORDED IN PLAT BOOK 346, PAGES 377 AND 378, OF THE ST. LOUIS COUNTY, MISSOURI, RECORDS.

SURVEYOR'S CERTIFICATION
 This is to certify that Stock and Associates Consulting Engineers, Inc. has prepared this Site Development Section Plan from a field survey and does not represent a property boundary survey. The information shown is a correct representation of all existing and proposed land divisions.
 STOCK AND ASSOCIATES CONSULTING ENGINEERS INC.
 L.S. No. 222-D
 WALTER J PFLEGER, MISSOURI P.L.S. No. 2008000728

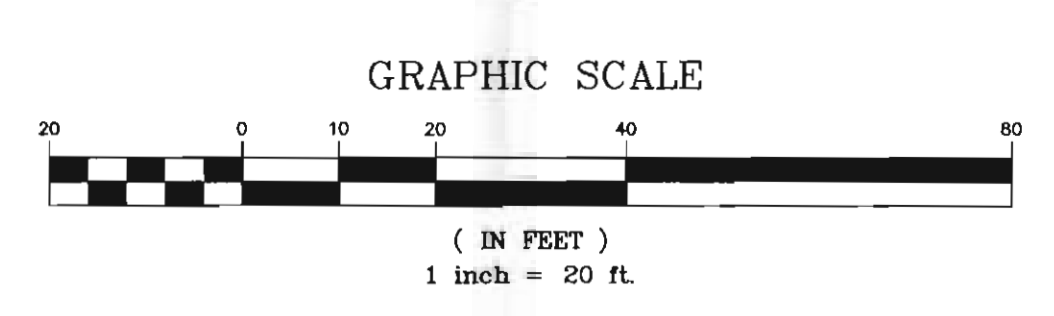
PREPARED FOR:
 KELLER VENTURES, LLC
 23 BOPP LANE
 ST. LOUIS, MO 63131
 PHONE: (636) 537-9700

SHEET INDEX
 - SITE DEVELOPMENT SECTION PLAN
 - PHOTOMETRIC PLAN

SITE INFORMATION
 C314A:
 OWNER (UNDER CONTRACT): KELLER VENTURES, LLC
 ADDRESS: 852 W CHESTERFIELD PKWY
 CHESTERFIELD, MO 63017
 LOT AREA: 1,403 Acres ±
 LOCATOR NO: 185540149
 ORDINANCE NO: 3026
 FIRE DISTRICT: MONARCH FIRE PROTECTION DISTRICT
 SCHOOL DISTRICT: PARKWAY
 SEWER DISTRICT: METROPOLITAN ST. LOUIS SEWER DIST.
 WATER SHED: CHESTERFIELD
 FEMA MAP: 29189C0145K
 ELECTRIC COMPANY: AMEREN UE
 GAS COMPANY: SPIRE
 PHONE COMPANY: AT&T
 WATER COMPANY: MISSOURI AMERICAN WATER COMPANY

SITE DEVELOPMENT SECTION PLAN

A TRACT OF LAND BEING LOT C314A OF CHESTERFIELD VILLAGE N.W. QUADRANT PARCEL C314 PER P.B. 346, PGS. 377 AND 378, LOCATED IN U.S. SURVEY 154, TOWNSHIP 45 NORTH, RANGE 4 EAST OF THE 5TH PRINCIPAL MERIDIAN
 CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI



ABBREVIATIONS

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

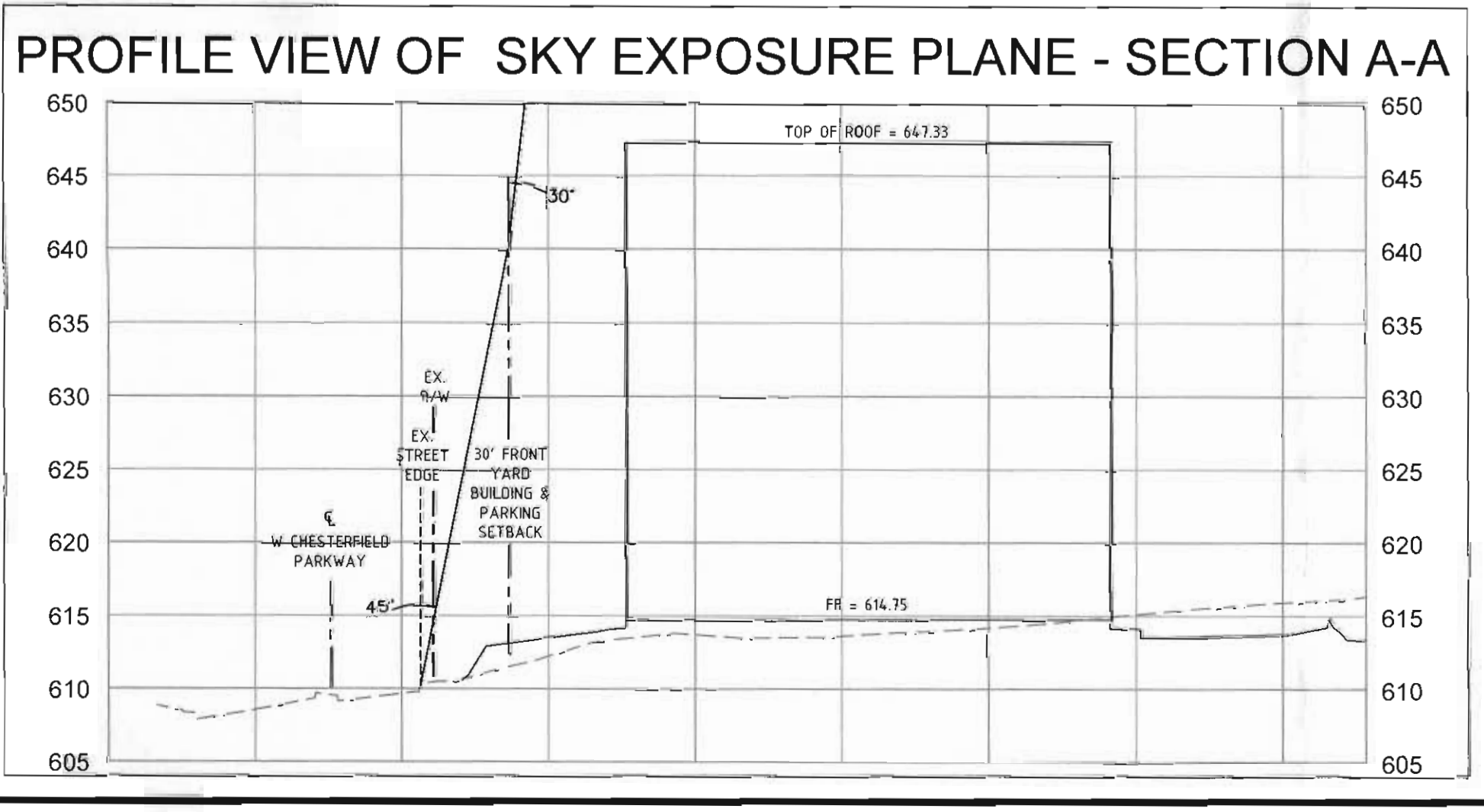
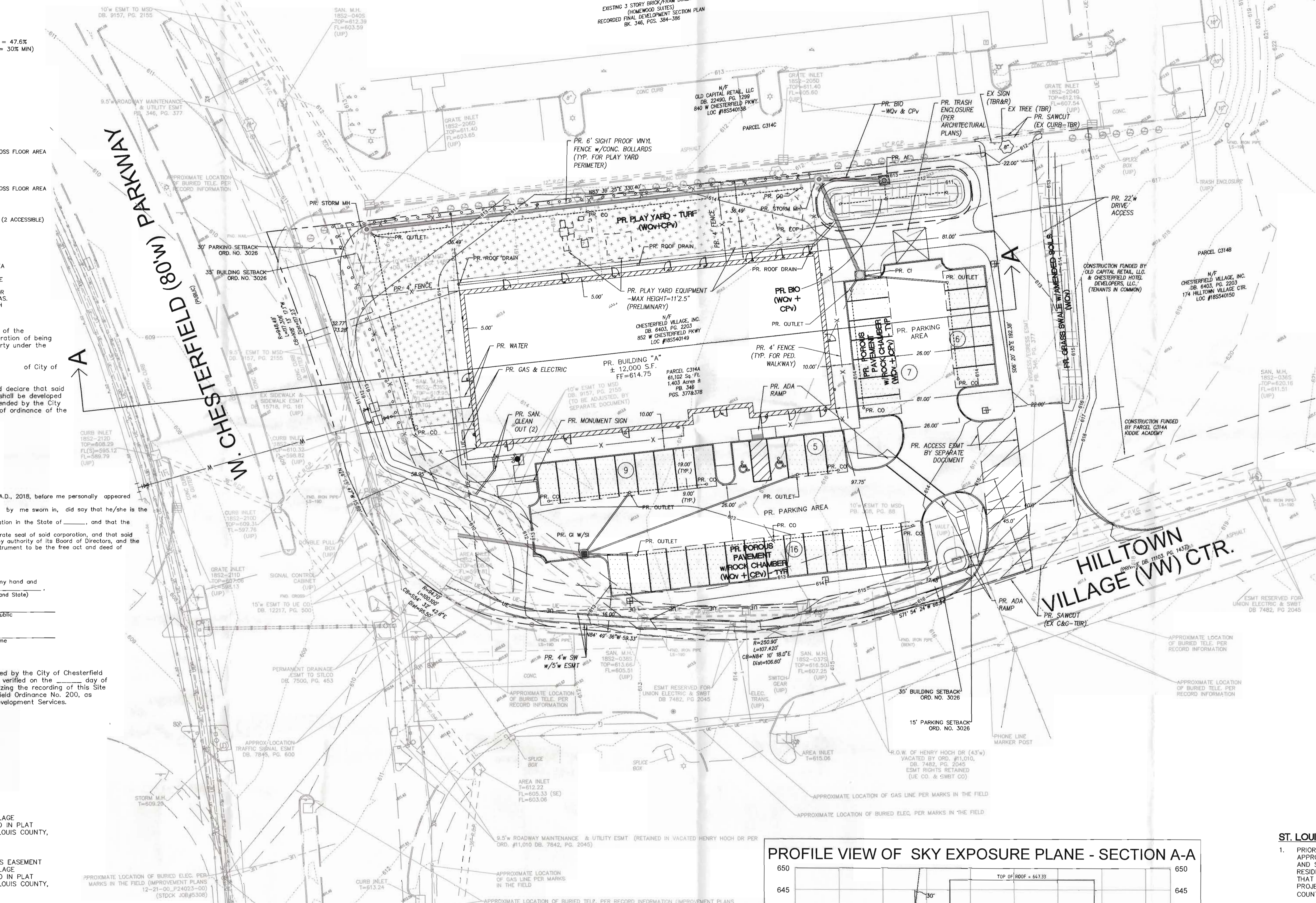
LEGEND

| | |
|----------------------------|----------|
| EXISTING SANITARY SEWER | [Symbol] |
| EXISTING STORM SEWER | [Symbol] |
| EXISTING TREE | [Symbol] |
| EXISTING BUILDING | [Symbol] |
| EXISTING CONTOUR | [Symbol] |
| SPOT ELEVATION | [Symbol] |
| EXISTING UTILITIES | [Symbol] |
| FOUND 1/2" IRON PIPE | [Symbol] |
| SET IRON PIPE | [Symbol] |
| FOUND CROSS | [Symbol] |
| FOUND STONE | [Symbol] |
| FIRE HYDRANT | [Symbol] |
| LIGHT STANDARD | [Symbol] |
| BUSH | [Symbol] |
| SIGN | [Symbol] |
| NOTES PARKING SPACES | [Symbol] |
| GUY WIRE | [Symbol] |
| POWER POLE | [Symbol] |
| WATER VALVE | [Symbol] |
| DENOTES RECORD INFORMATION | [Symbol] |
| HANDICAPPED PARKING | [Symbol] |
| PROPOSED CONTOUR | [Symbol] |
| PROPOSED SPOT | [Symbol] |
| PROPOSED STORM | [Symbol] |
| PROPOSED SANITARY | [Symbol] |

- NOTES**
- BOUNDARY AND TOPOGRAPHICAL SURVEY BY STOCK AND ASSOCIATES CONSULTING ENGINEERS, INC. (BASIS OF BEARINGS: MISSOURI STATE PLANE, GRID NORTH)
 - 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.
 - ON-SITE STORM WATER DRAINAGE REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE CHESTERFIELD VALLEY MASTER STORM WATER DRAINAGE PLAN AND AS DIRECTED BY THE CITY OF CHESTERFIELD AND MSD.
 - ALL PROPOSED UTILITIES SHALL BE CONSTRUCTED TO THE CITY OF CHESTERFIELD STANDARDS.
 - ALL GRADING AND DRAINAGE TO BE IN CONFORMANCE WITH THE CITY OF CHESTERFIELD AND MSD STANDARDS.
 - STORM WATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS.
 - THIS SITE DEVELOPMENT SECTION PLAN WILL ADHERE TO THE PARKING AND LOADING REGULATIONS OF THE CITY OF CHESTERFIELD CODE.
 - NO PARKING SHALL BE PERMITTED ON ANY ROADWAY IN OR ADJACENT TO THE DEVELOPMENT AS REQUIRED BY THE SITE SPECIFIC ORDINANCE.
 - 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.
 - PLANS SUBJECT TO CHANGE PENDING AGENCY REVIEWS AND FINAL ENGINEERING.

ST. LOUIS COUNTY NOTES

- PRIOR TO IMPROVEMENT/CONSTRUCTION PLAN APPROVAL, THE ENGINEER SHALL PROVIDE A SIGNED AND SEALED NOTE ON THE PLANS FOR BOTH RESIDENTIAL AND COMMERCIAL PROJECTS STATING THAT THE UNIMPROVED EXISTING SIDEWALK ALONG THE PROJECT FRONTAGE MEETS CURRENT ST. LOUIS COUNTY ADA STANDARDS.
- PRIOR TO SPECIAL USE PERMIT ISSUANCE BY ST. LOUIS COUNTY, A SPECIAL CASH ESCROW SUPPORTED BY AN IRREVOCABLE LETTER OF CREDIT SHALL BE ESTABLISHED WITH ST. LOUIS COUNTY DEPARTMENT OF TRANSPORTATION TO GUARANTEE COMPLETION OF REQUIRED ROAD IMPROVEMENTS. ROAD IMPROVEMENTS SHALL BE COMPLETED PRIOR TO THE ISSUANCE OF OCCUPANCY PERMIT.
- ANY ENTITY THAT PERFORMS WORK ON ST. LOUIS COUNTY MAINTAINED PROPERTY SHALL PROVIDE THE COUNTY WITH A CERTIFICATE OF INSURANCE COVERING GENERAL LIABILITY COVERAGE (BODILY INJURY AND PROPERTY DAMAGE) IN THE AMOUNTS SPECIFIED AS THE LIMITS OF LIABILITY SET BY THE STATE FOR PUBLIC ENTITIES. SUCH CERTIFICATE SHALL INCLUDE "ST. LOUIS COUNTY" AS AN ADDITIONAL INSURED AND SHALL BE PROVIDED PRIOR TO THE ISSUANCE OF ANY PERMIT. CERTIFICATE SHALL PROVIDE FOR A 30 DAY POLICY CANCELLATION NOTICE TO ST. LOUIS COUNTY. UPON REQUEST, THE COUNTY WILL PROVIDE THE SPECIFIC AMOUNTS FOR BOTH PER PERSON AND PER OCCURRENCE LIMITS.



PROFESSIONAL ENGINEER'S STATEMENT
 Neither SCI Engineering, Inc. (SCI) nor the undersigned has prepared any part of these plans. The signature and seal are intended to confirm our review and professional opinion that these plans and sections, through the date given below, comply with the Standard Report dated December 2018 for the project, and are responsible with the seal and public credit on the site, as recognized from the expiration date.
 Conditions may vary from those encountered during the exploration or can change due to unforeseen activities, weather, or other conditions. Therefore, SCI must be involved during the construction of this project to observe the actual subsurface conditions and implementation of our recommendations relative to construction. Construction means and methods shall be left to the Contractor.
 SCI ENGINEERING, INC.
 T. J. B. [Signature]
 T. J. B. [Signature]
 Date

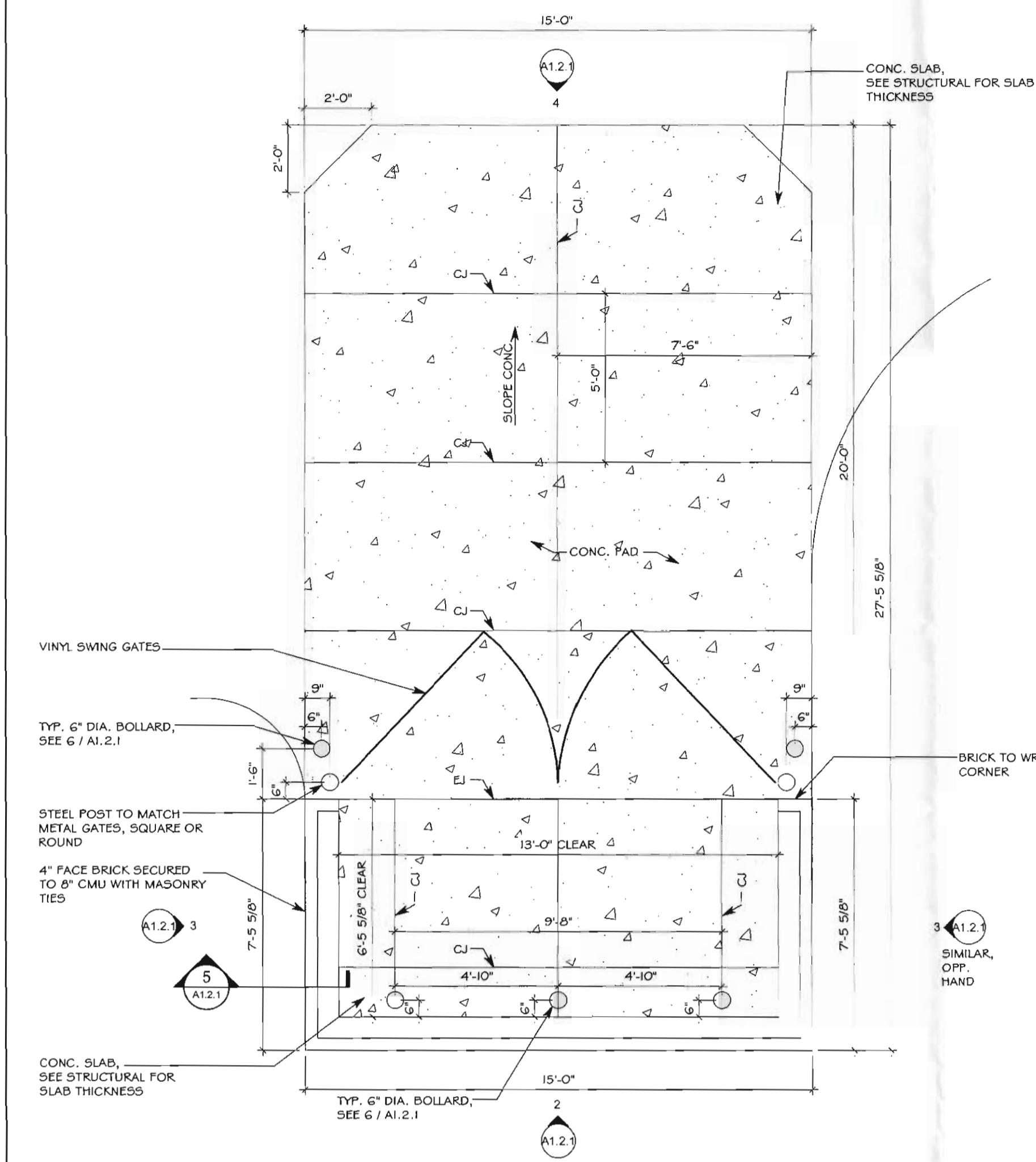
PREPARED BY: **STOCK & ASSOCIATES Consulting Engineers, Inc.**
 297 Chesterfield Business Parkway
 St. Louis, MO 63005
 PH: (636) 538-9100
 FAX: (636) 538-9100
 E-mail: general@stockandassociates.com
 Web: www.stockandassociates.com

CHESTERFIELD VILLAGE, NORTHWEST QUADRANT, PARCEL C314A
 WEST CHESTERFIELD PARKWAY
 CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI

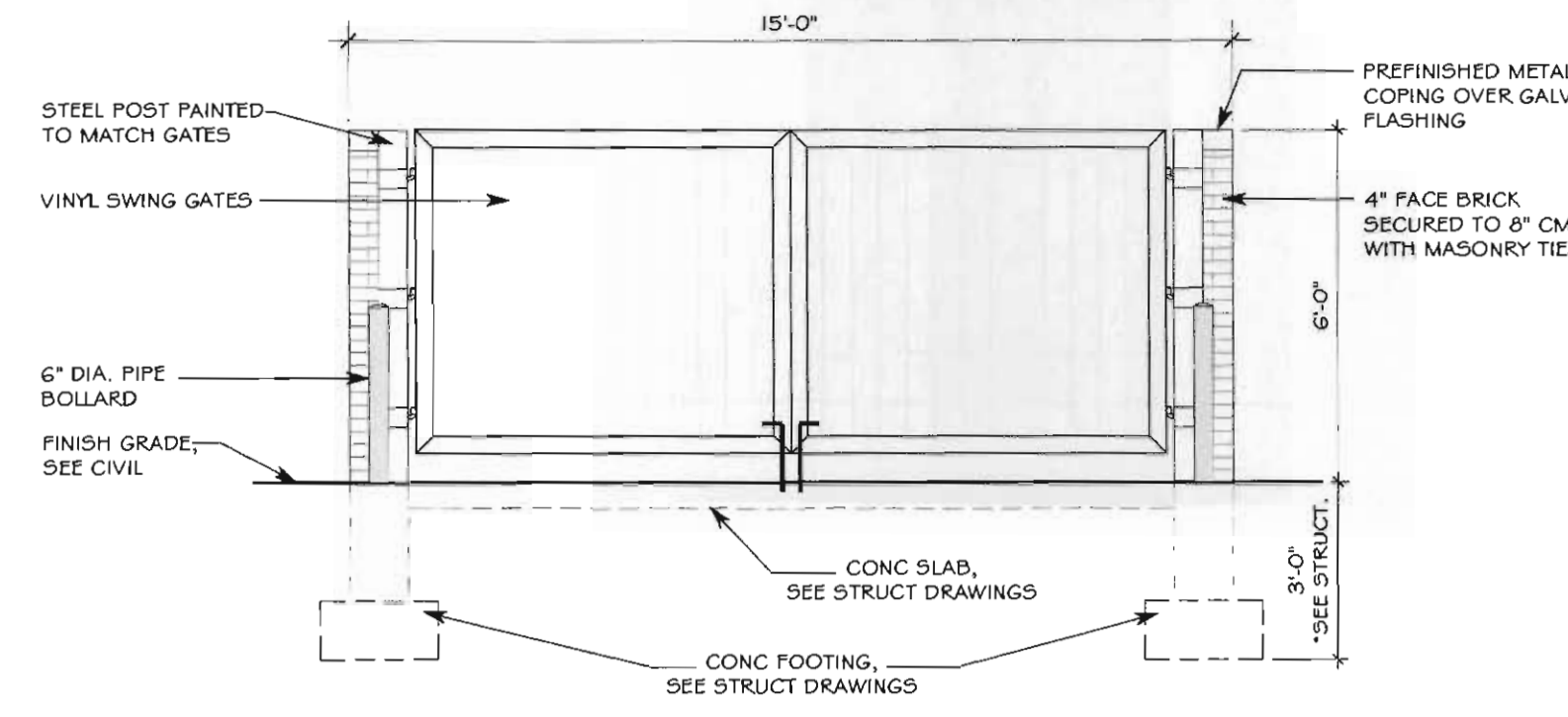
DATE: 11/13/2018
 GEORGE M. STOCK #25116
 CIVIL ENGINEER
 CERTIFICATE OF AUTHORITY NUMBER: 00099

REVISIONS:
 1 12-20-18 CITY COMMENTS

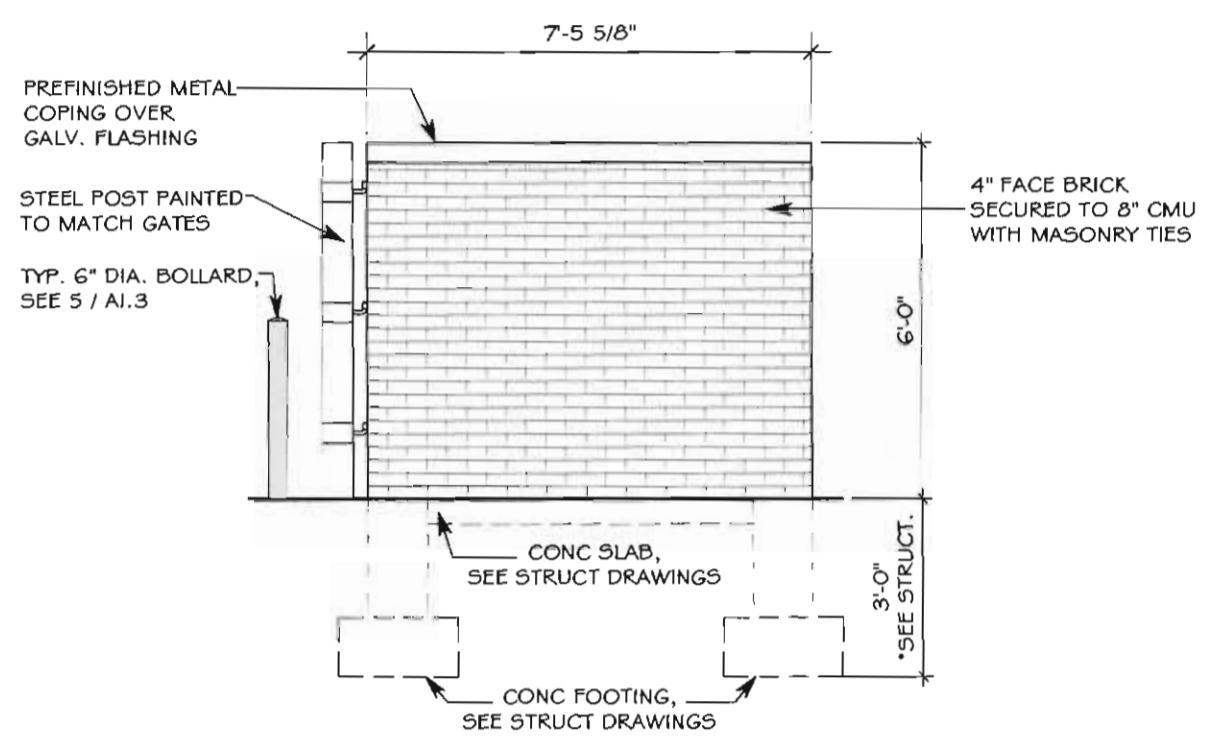
SHEET TITLE: SITE DEVELOPMENT SECTION PLAN
SHEET NO.: SDSP-1.0



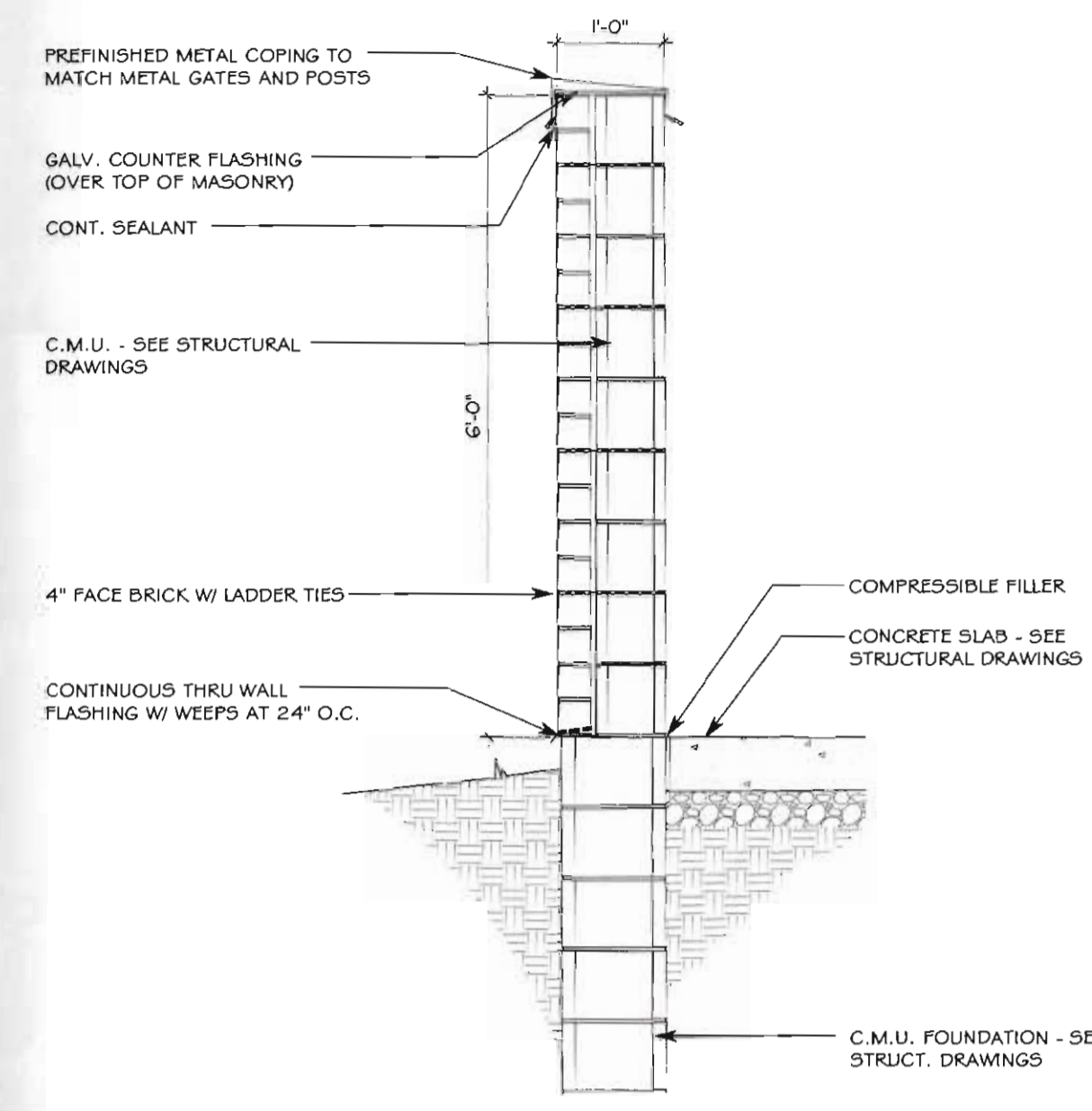
1 ENLG PLAN - TRASH ENCLOSURE
A1.2.1 SCALE: 3/8" = 1'-0"



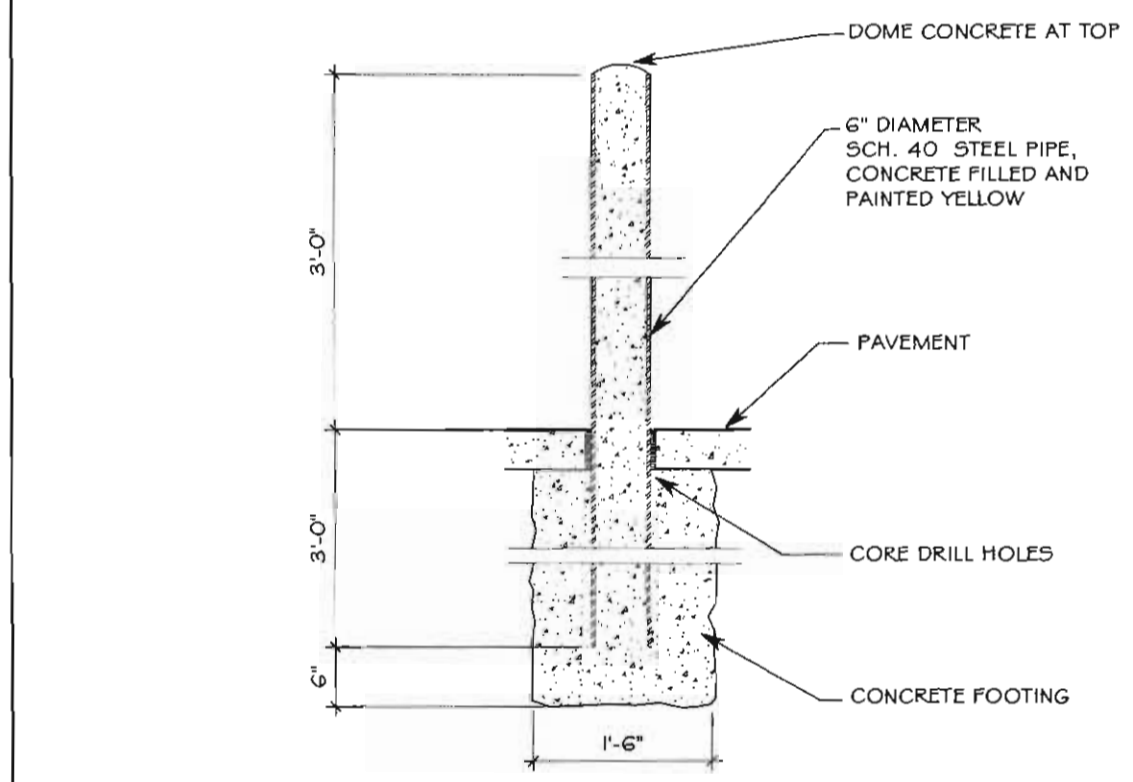
4 ELEVATION - FRONT GATES OF TRASH ENCLOSURE
A1.2.1 SCALE: 3/8" = 1'-0"



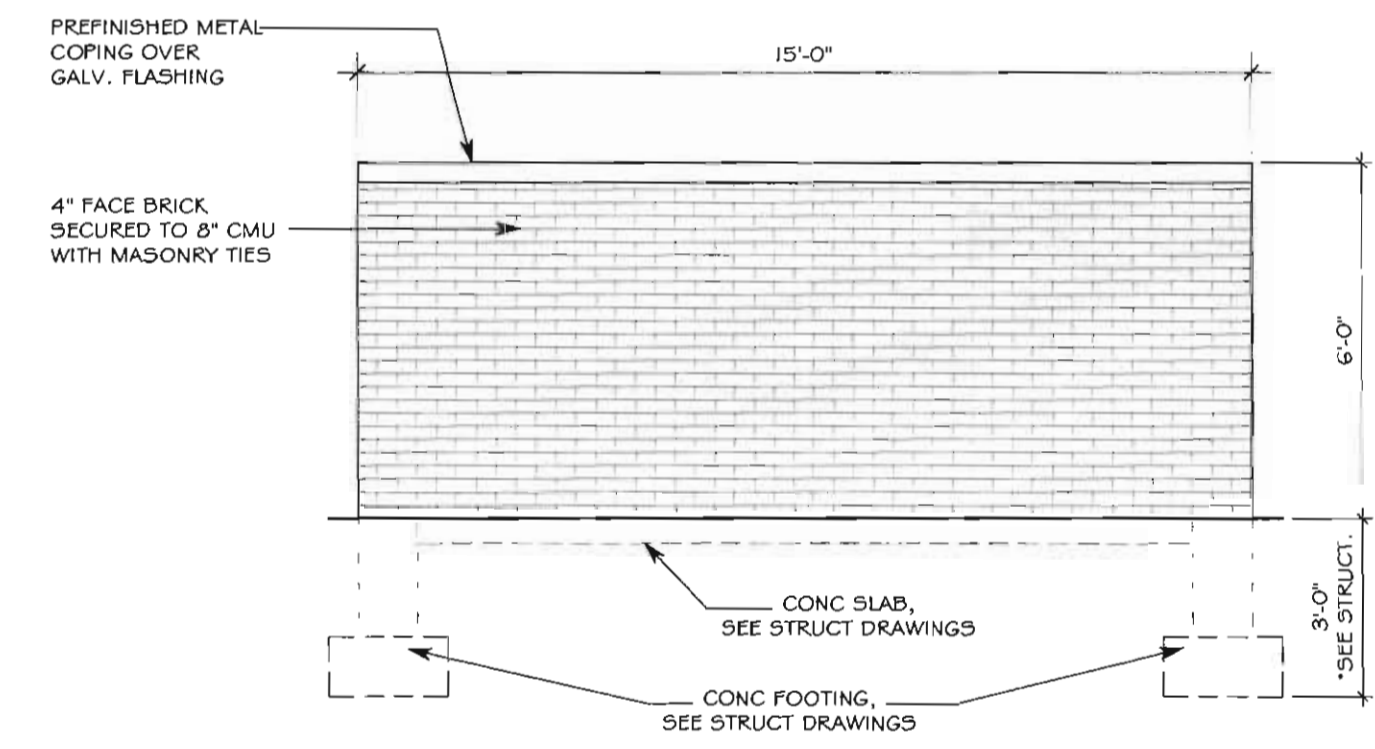
3 ELEVATION - SIDE WALL OF TRASH ENCLOSURE
A1.2.1 SCALE: 3/8" = 1'-0"



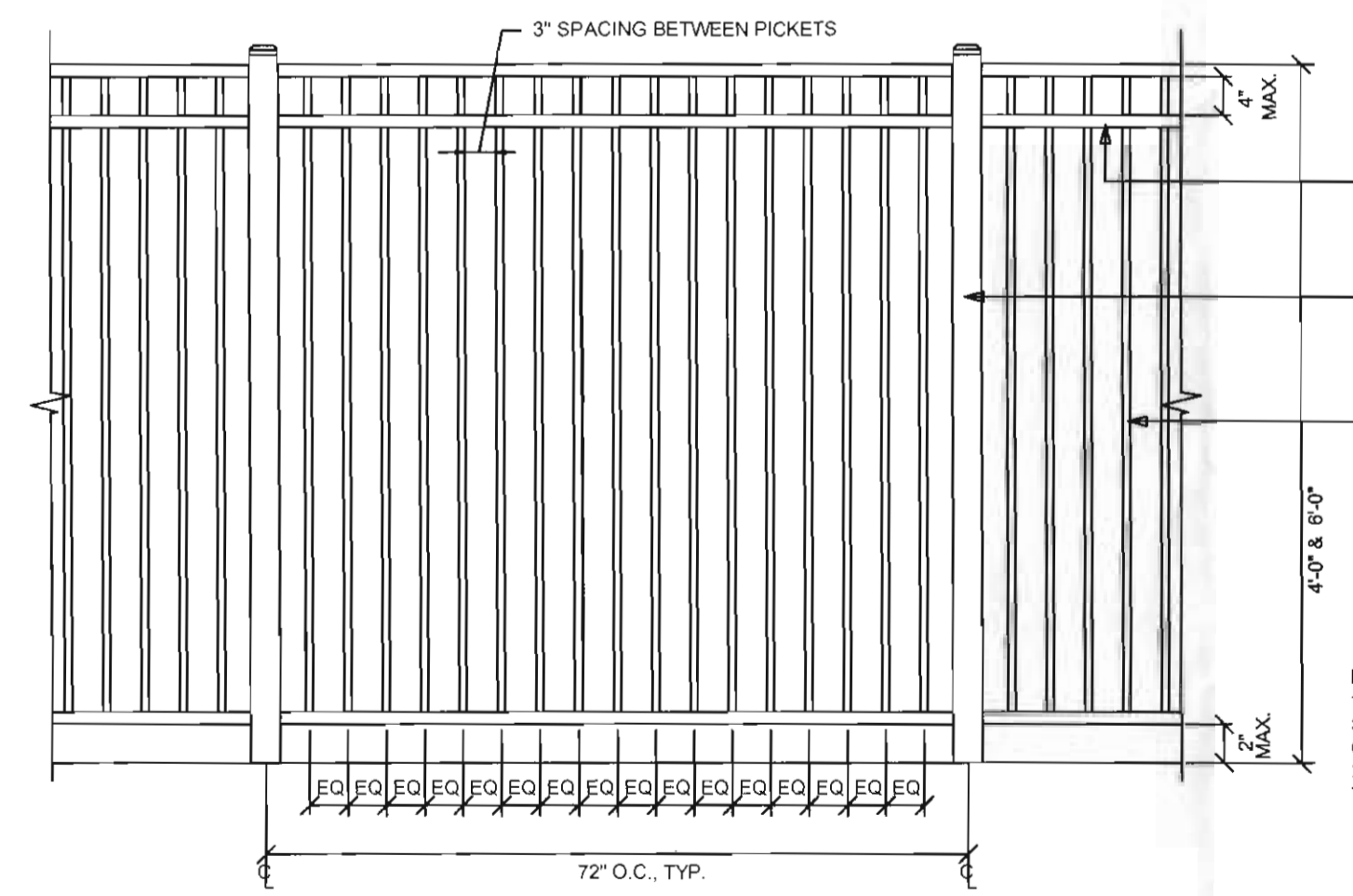
5 TYP. TRASH ENCLOSURE WALL SECTION
A1.2.1 SCALE: 3/4" = 1'-0"



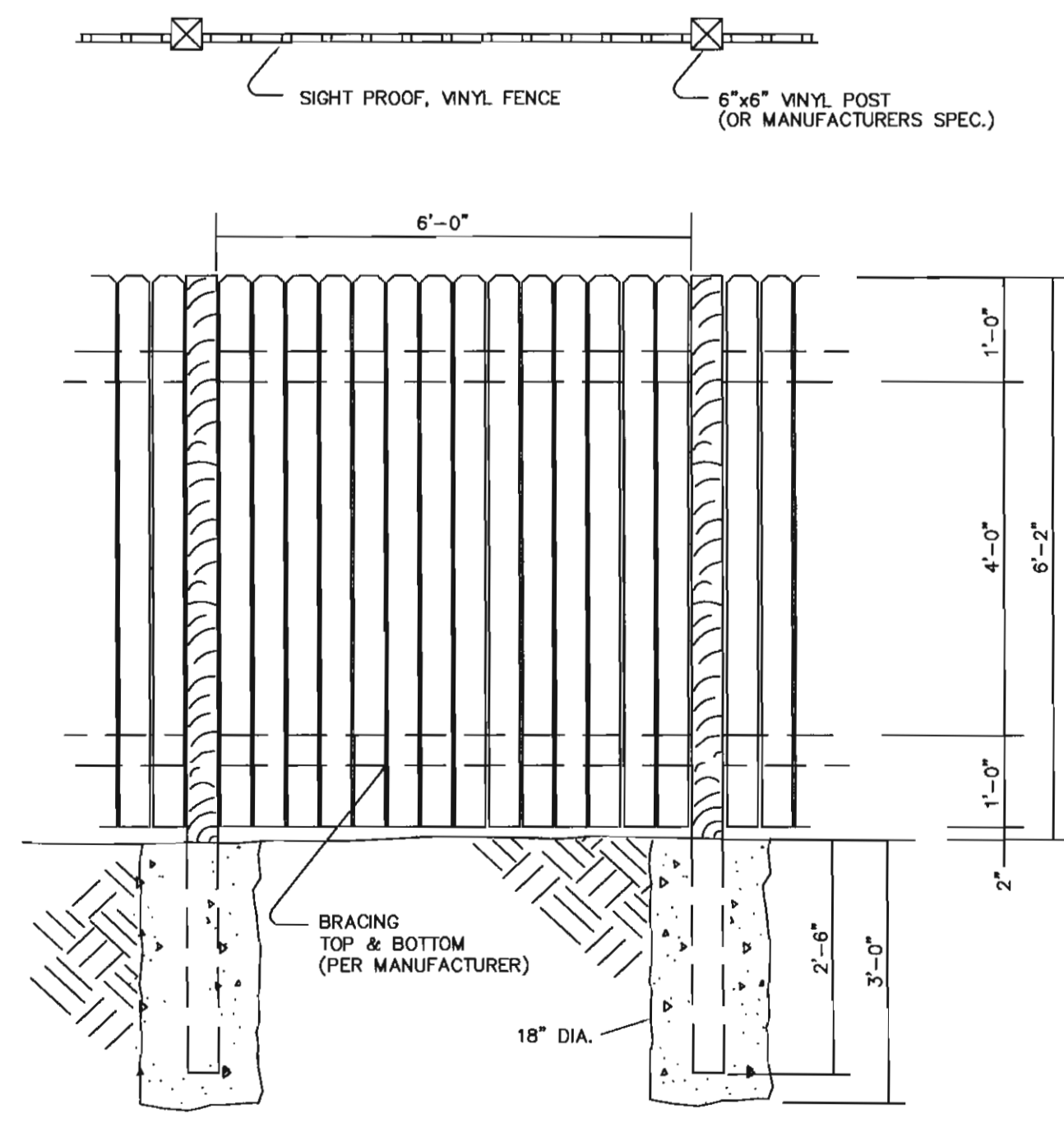
6 TYP. BOLLARD DETAIL
A1.2.1 SCALE: 3/4" = 1'-0"



2 ELEVATION - BACK WALL OF TRASH ENCLOSURE
A1.2.1 SCALE: 3/8" = 1'-0"



FENCE (BLACK ALUMINUM OR IRON) DETAIL



SIGHTPROOF FENCE (VINYL) DETAIL

DRAWN BY: A.L.W. CHECKED BY: C.M.S. DATE: 11/13/2018 JOB NO: 218-6322
 DESIGNED BY: A.L.W. DATE: 11/13/2018 JOB NO: 218-6322
 SCALE: 1/8" = 1'-0" SHEET NO: 18SD-00572 BASE MAP: 18S2
 SHEET TITLE: SDSP-1.1
 SHEET NO.: SDSP-1.1

PREPARED FOR:
 KELLER VENTURES, LLC
 23 BOPP LANE
 ST. LOUIS, MO 63131
 PHONE: (636) 537-9700

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

PREPARED BY:

STOCK & ASSOCIATES
 Consulting Engineers, Inc.

257 Chesterfield Business Parkway
 St. Louis, MO 63005
 PH: (636) 530-9000
 FAX: (636) 530-9100
 E-mail: general@stockassoc.com
 Web: www.stockassoc.com

SITE DEVELOPMENT PLAN
 CHESTERFIELD VILLAGE, NORTHWEST QUADRANT,
 PARCEL C314A
 WEST CHESTERFIELD PARKWAY
 CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI

DATE:



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

REVISIONS:

1 12-20-18 CITY COMMENTS

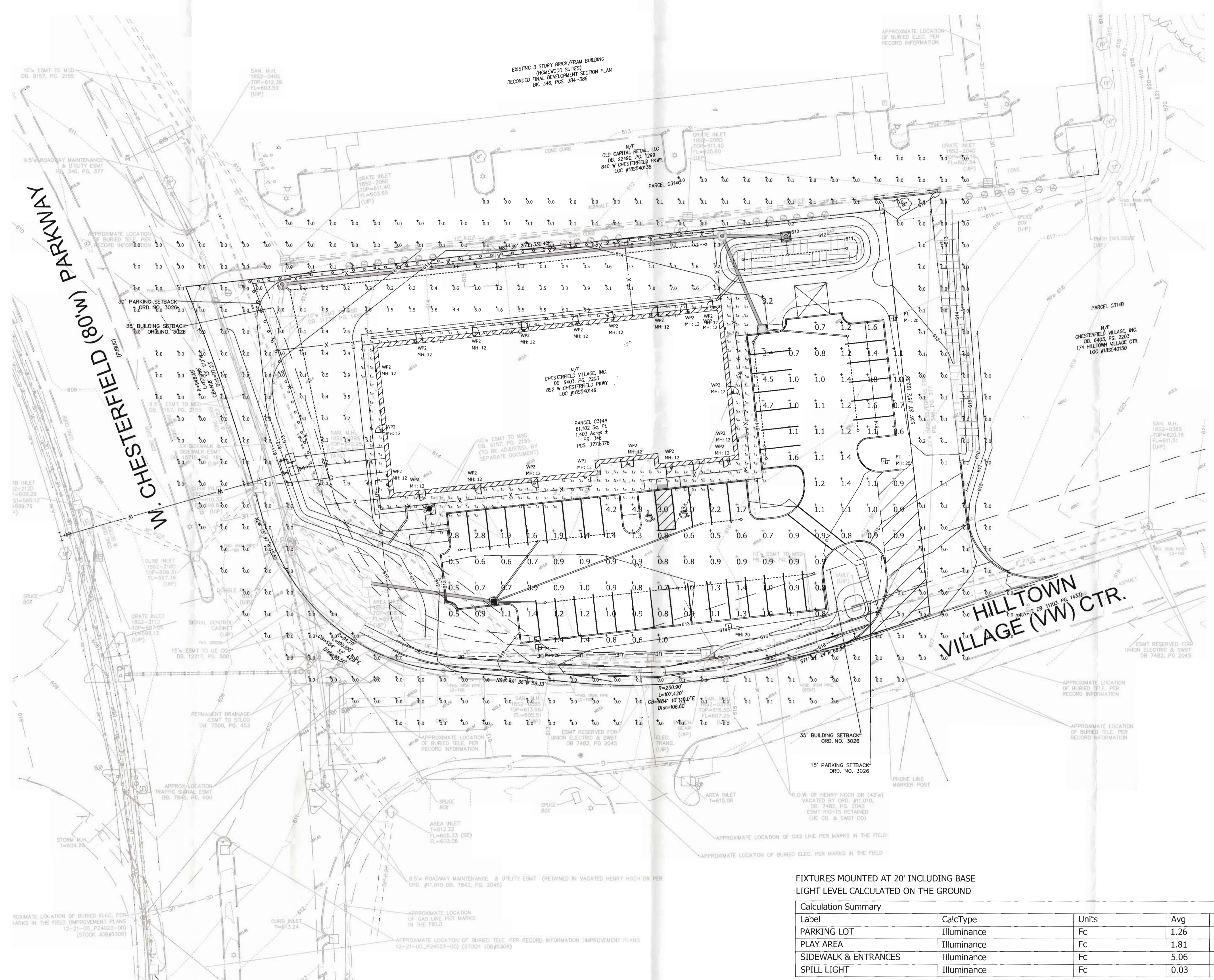
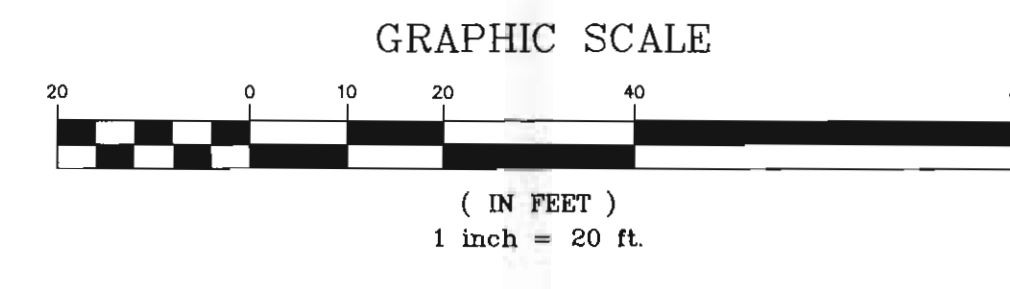
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|--------------|--------------|-------------|----------|
| DRAWN BY: | A.L.W. | CHECKED BY: | C.M.S. |
| DATE: | 11/13/2018 | JOB NO.: | 218-6322 |
| DESIGNED BY: | A.L.W. | BASE MAP #: | 18S2 |
| SHEET NO. #: | 4478 | HWT SUP. #: | - |
| SCALE: | 1/8" = 1'-0" | | |

SHEET TITLE:

SDSP DETAILS

SHEET NO.:

SDSP-1.1



Calculation Summary

| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
|----------------------|-------------|-------|------|-----|-----|---------|---------|
| PARKING LOT | Illuminance | Fc | 1.26 | 4.7 | 0.5 | 2.52 | 9.40 |
| PLAY AREA | Illuminance | Fc | 1.81 | 7.0 | 0.0 | N.A. | N.A. |
| SIDEWALK & ENTRANCES | Illuminance | Fc | 5.06 | 9.4 | 2.0 | 2.53 | 4.70 |
| SPILL LIGHT | Illuminance | Fc | 0.03 | 0.2 | 0.0 | N.A. | N.A. |

Luminaire Schedule

| Symbol | Qty | Label | Arrangement | Lum. Watts | Total Watts | LLF | Description |
|----------|-----|-------|-------------|------------|-------------|-------|--------------------------------|
| [Symbol] | 2 | F1 | SINGLE | 44 | 88 | 1.000 | GLEON-AF-01-LED-E1-SL4-800-HSS |
| [Symbol] | 2 | F2 | SINGLE | 44 | 88 | 1.000 | GLEON-AF-01-LED-E1-T4W-800 |
| [Symbol] | 1 | WP1 | SINGLE | 25.31 | 25.31 | 1.000 | ISW-AF-450-LED-E1-SL4 |
| [Symbol] | 20 | WP2 | SINGLE | 25.31 | 506.2 | 1.000 | ISW-AF-450-LED-E1-SL3 |

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

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

PREPARED FOR:
ARCO CONSTRUCTION COMPANY
900 ROCK HILL ROAD
ST. LOUIS, MO 63119
PHONE: (314) 963-0715

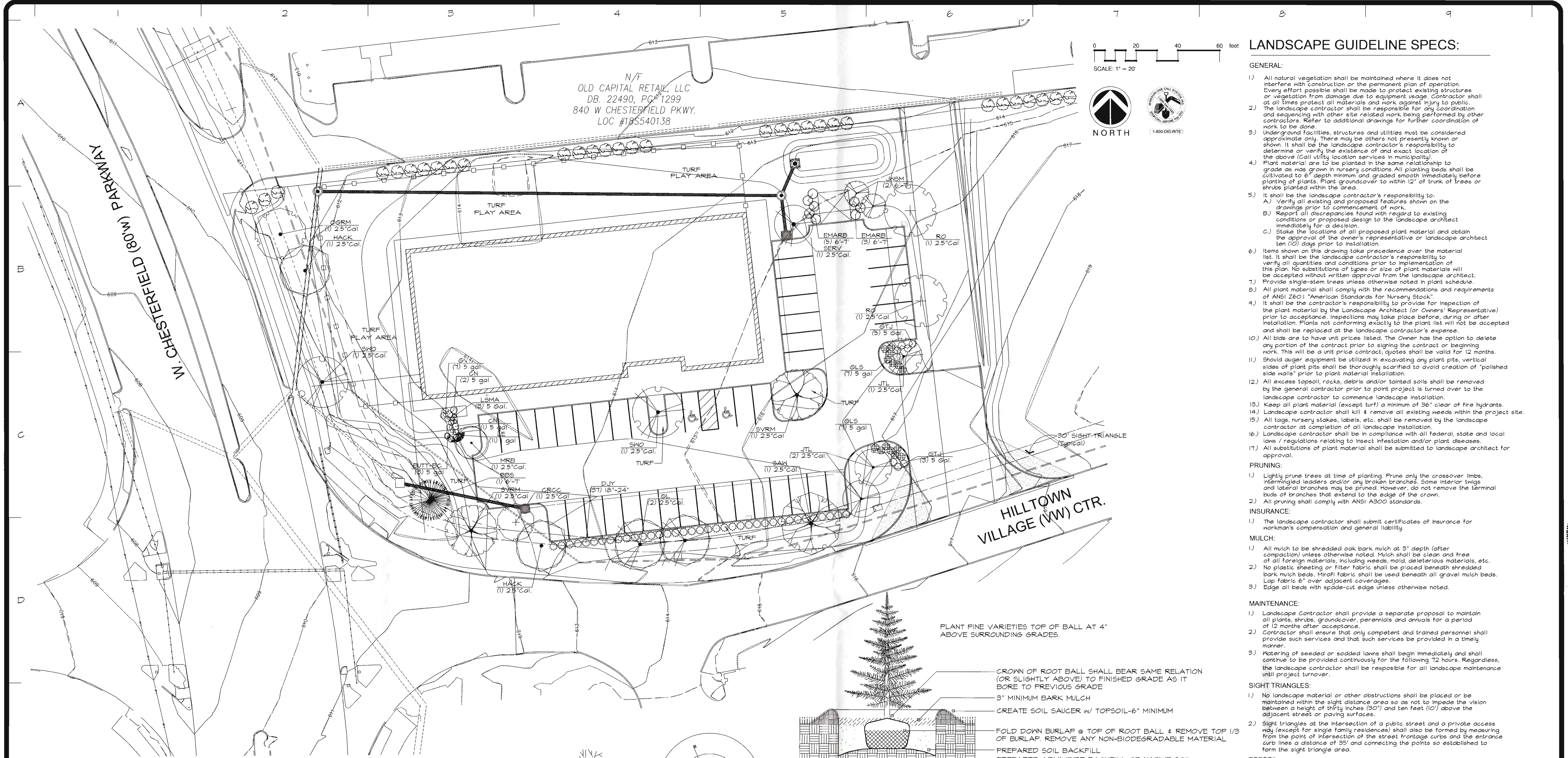
PREPARED BY:
STOCK & ASSOCIATES
Consulting Engineers, Inc.
257 Chesterfield Business Parkway
St. Louis, MO 63005
PH: (636) 558-9100
FAX: (636) 558-9300
e-mail: gma@stockassoc.com
Web: www.stockassoc.com

SITE DEVELOPMENT PLAN
CHESTERFIELD VILLAGE, NORTHWEST QUADRANT,
PARCEL C314A
WEST CHESTERFIELD PARKWAY
CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI

DATE: 12/29/18
STATE OF MISSOURI
GEORGE MICHAEL STOCK
NUMBER PB-25116
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 12/29/2021

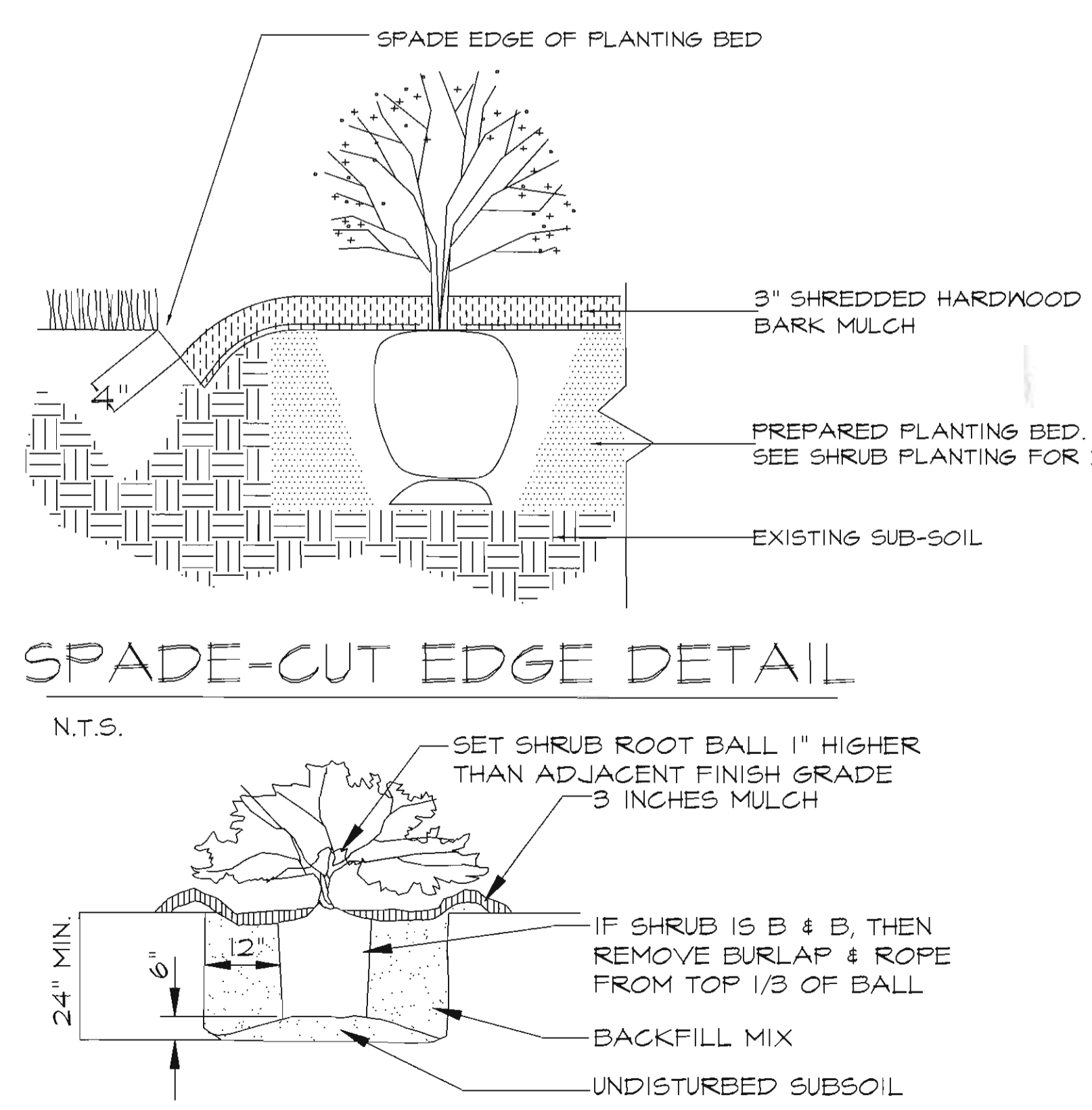
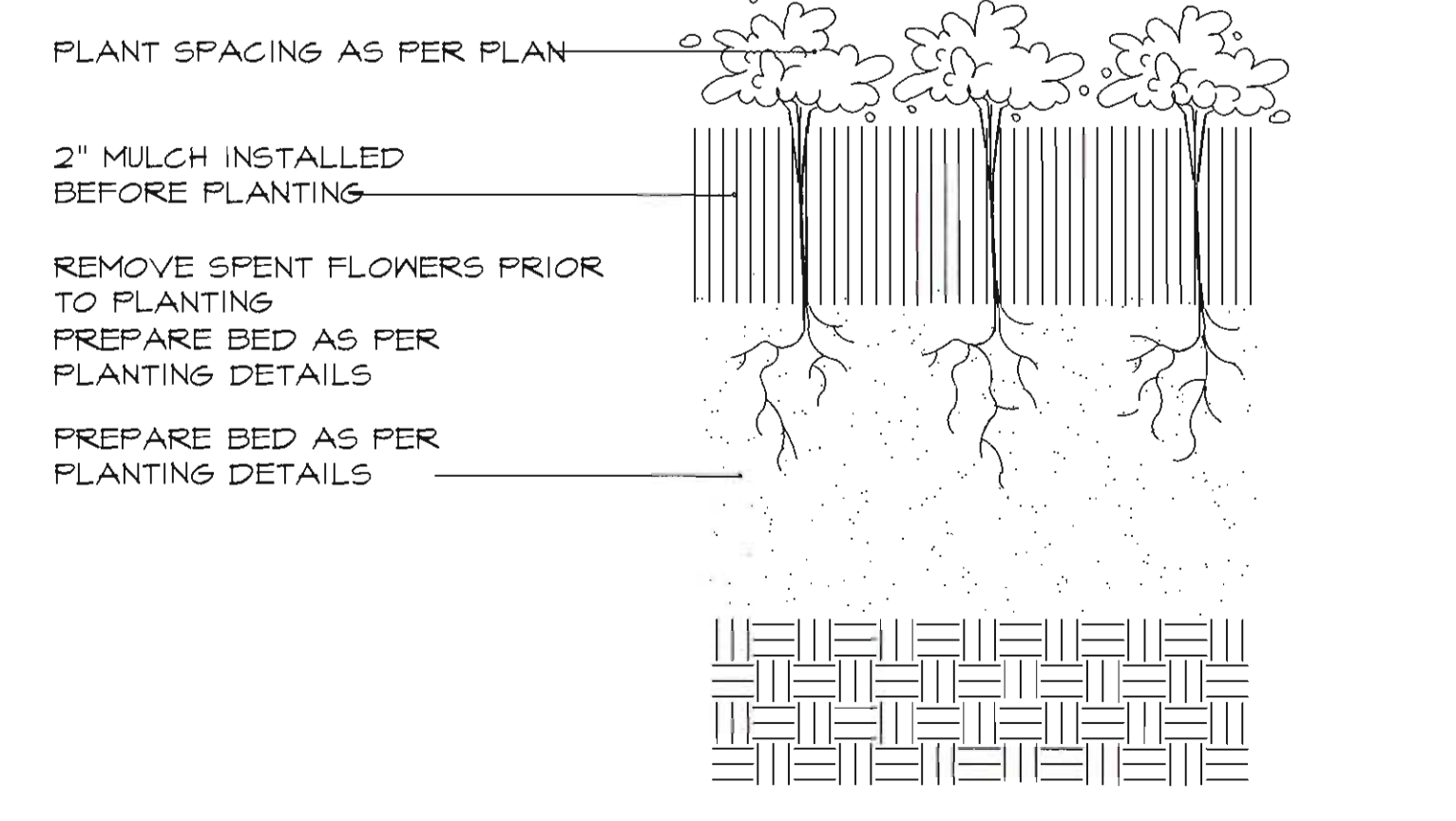
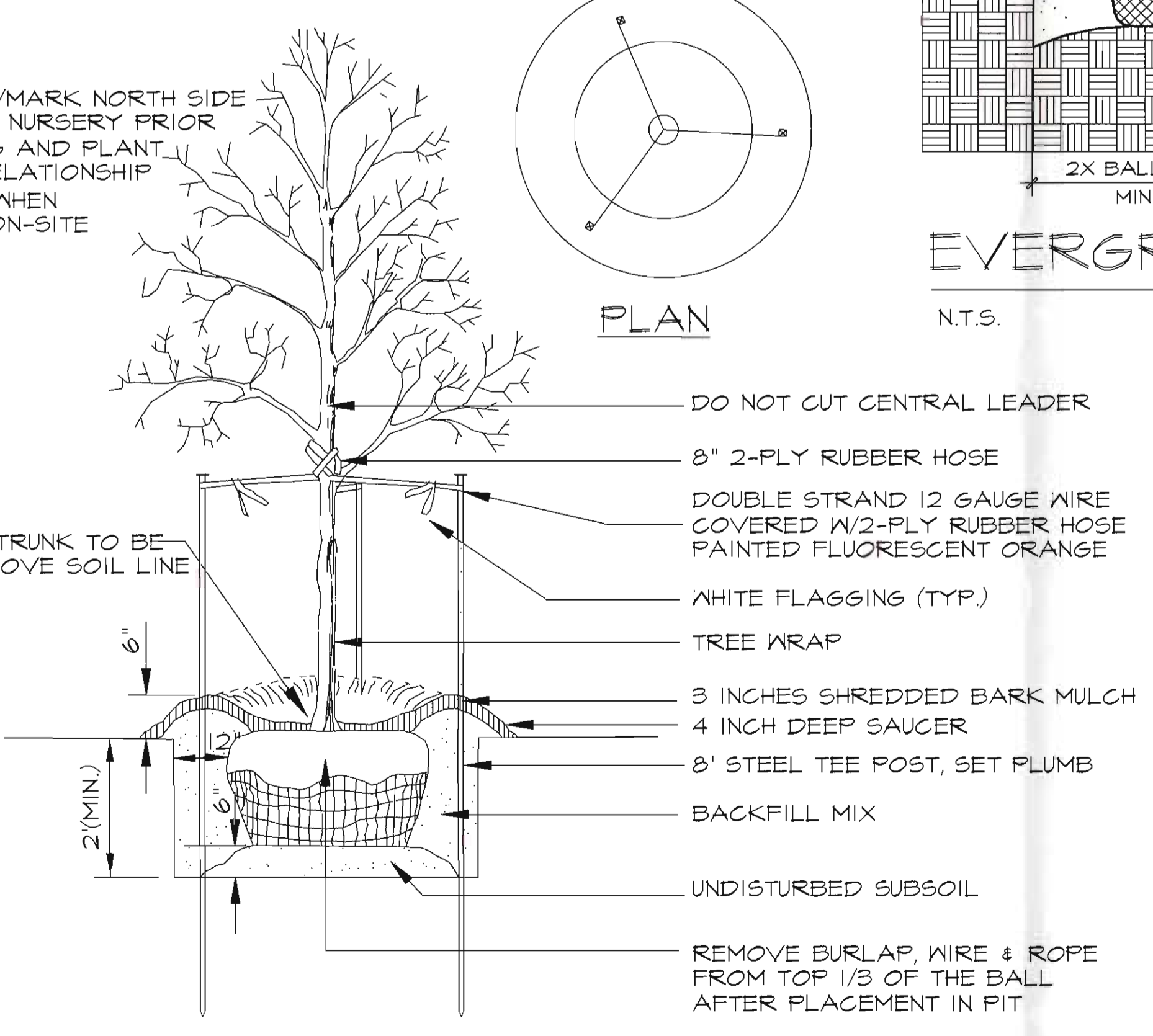
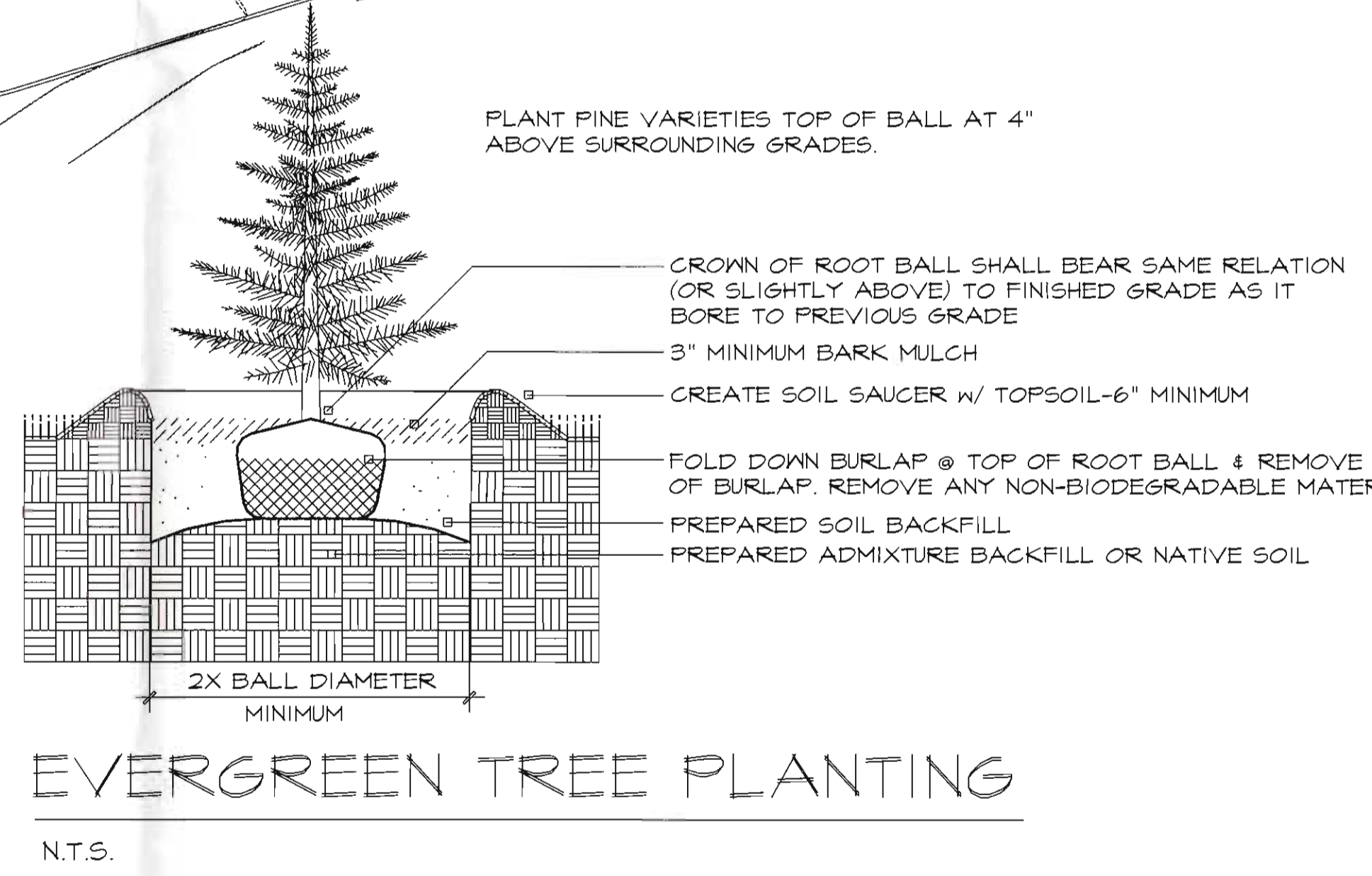
REVISIONS:
1 12-20-18 CITY COMMENTS

DRAWN BY: A.L.W. CHECKED BY: G.M.S.
DATE: 11/13/2018 JOB NO.: 216-6322
FILE # 18MSD-00572 DATE SUP: 1852
SUC. INT # 4478 INT SUP. # -
WORK # MO-00
SHEET TITLE:
PHOTOMETRIC PLAN
SHEET NO.:
SDSP-2.0



LANDSCAPE GUIDELINE SPECS:

- GENERAL:**
- All natural vegetation shall be maintained where it does not interfere with construction or the permanent plan of operation. Every effort possible shall be made to protect existing structures or vegetation from damage due to equipment usage. Contractor shall at all times protect all materials and work against injury to public. The landscape contractor shall be responsible for any coordination and sequencing with other site related work being performed by other contractors. Refer to additional drawings for further coordination of work to be done.
 - Underground facilities, structures and utilities must be considered approximate only. There may be others not previously known or shown. It shall be the landscape contractor's responsibility to determine or verify the existence of and exact location of the above (call utility location services in municipality).
 - Plant material are to be planted in the same relationship to grade as was grown in nursery conditions. All planting beds shall be cultivated to depth minimum and graded smooth immediately before planting of plants. Plant groundcover to within 12" of trunk of trees or shrubs planted within the area.
 - It shall be the landscape contractor's responsibility to:
 - Verify all existing and proposed features shown on the drawings prior to commencement of work.
 - Report all discrepancies found with regard to existing conditions or proposed design to the landscape architect immediately for a decision.
 - State the locations of all proposed plant material and obtain the approval of the owner's representative or landscape architect ten (10) days prior to installation.
 - Items shown on the drawing take precedence over the material list. It shall be the landscape contractor's responsibility to verify all quantities and conditions prior to implementation of this plan. No substitutions of types or size of plant materials will be accepted without written approval from the landscape architect.
 - Provide single-stem trees unless otherwise noted in plant schedule.
 - All plant material shall comply with the recommendations and requirements of ANSI Z601 "American Standards for Nursery Stock".
 - It shall be the contractor's responsibility to provide for inspection of the plant material by the Landscape Architect (or Owner's Representative) prior to acceptance. Inspections may take place before, during or after installation. Plants not conforming exactly to the plant list will not be accepted and shall be replaced at the landscape contractor's expense.
 - All bids are to have unit prices listed. The Owner has the option to delete any portion of the contract prior to signing the contract or beginning work. This will be a unit price contract; quotes shall be valid for 12 months.
 - Should auger equipment be utilized in excavating any plant pits, vertical sides of plant pits shall be thoroughly scarified to avoid creation of "polished side walls" prior to plant material installation.
 - All excess topsoil, rocks, debris and/or tainted soils shall be removed by the general contractor prior to point project is turned over to the landscape contractor to commence landscape installation.
 - Keep all plant material (except turf) a minimum of 36" clear of fire hydrants.
 - Landscape contractor shall kill & remove all existing weeds within the project site.
 - All tags, nursery stakes, labels, etc. shall be removed by the landscape contractor at completion of all landscape installation.
 - Landscape contractor shall be in compliance with all federal, state and local laws / regulations relating to insect infestation and/or plant diseases.
 - All substitutions of plant material shall be submitted to landscape architect for approval.
- PRUNING:**
- Lightly prune trees at time of planting. Prune only the crossover limbs, interangled leaders and/or any broken branches. Some interior twigs and lateral branches may be pruned. However, do not remove the terminal buds of branches that extend to the edge of the crown.
 - All pruning shall comply with ANSI A300 standards.
- INSURANCE:**
- The landscape contractor shall submit certificates of insurance for workman's compensation and general liability.
- MULCH:**
- All mulch to be shredded oak bark mulch at 3" depth (after compaction) unless otherwise noted. Mulch shall be clean and free of all foreign materials, including weeds, rock, debris, etc.
 - No plastic sheeting or filter fabric shall be placed beneath shredded bark mulch beds. Mesh fabric shall be used beneath all gravel mulch beds. Lap fabric 6" over adjacent coverages.
 - Edge all beds with spade-cut edge unless otherwise noted.
- MAINTENANCE:**
- Landscape Contractor shall provide a separate proposal to maintain all plants, shrubs, groundcover, perennials and annuals for a period of 12 months after acceptance.
 - Contractor shall ensure that only competent and trained personnel shall provide such services and that such services be provided in a timely manner.
 - Watering of seeded or sodded lawns shall begin immediately and shall continue to be provided continuously for the following 12 hours. Regardless, the landscape contractor shall be responsible for all landscape maintenance until project turnover.
- SIGHT TRIANGLES:**
- No landscape material or other obstructions shall be placed or be maintained within the sight triangle area so as not to impede the vision between a height of thirty inches (30") and ten feet (10') above the adjacent street or paving surfaces.
 - Sight triangles at the intersection of a public street and a private access way (except for single family residences) shall also be formed by measuring from the point of intersection of the street frontage curbs and the entrance curb lines a distance of 35' and connecting the points so established to form the sight triangle area.
- TOPSOIL:**
- Topsoil mix for all proposed landscape plantings shall be five (5) parts well-drained screened organic topsoil to one (1) part Canadian sphagnum peat moss as per planting details. Roto-till topsoil mix to a depth of 6" minimum and grade smooth.
 - Provide a soil analysis as requested made by an independent soil-testing agency outlining the % of organic matter, inorganic matter, deleterious material, pH and mineral content.
 - Any foreign topsoil shall be free of roots, stumps, weeds, brush, stones (larger than 1"), litter or any other deleterious or toxic material. Landscape contractor shall be fully responsible for correcting all negative soil issues prior to plant installation. Killing and removal of all weeds shall be the responsibility of the landscape contractor as part of this task.
 - Landscape contractor to apply pre-emergent herbicide to all planting beds upon completion of planting operations and before application of shredded bark mulch.
- TURF:**
- All disturbed lawn areas to be seeded with a mixture of Turf-type fescue (80% per acre) and bluegrass (18% per acre). Lawn areas shall be unconditionally warranted for a period of 90 days from date of final acceptance. Bare areas more than one square foot per any 50 square feet shall be replaced.
 - Seed and fertilization operations shall occur between May 1 and June 15th or between September 1 and October 15th unless directed by others in writing AND irrigation system is operating. Granular or pelleted fertilizer consisting of 50% water-insoluble slow release nitrogen, phosphorous and potassium in a 12-12-12 composition.
 - The turf contractor shall be responsible for protection of finished grade; restore and repair any erosion or water damage and obtain owners' approval prior to seeding or sod installation.
 - Landscape contractor shall offer an alternate price for sod in lieu of seed. Sod shall be cut at a uniform thickness of 3/4". No broken pieces, irregular pieces or torn pieces will be accepted. Any points carrying concentrated water loads and all slopes of 15% or greater shall be sodded.
 - All sod shall be placed a maximum of 24 hours after harvesting.
 - Recondition existing lawn areas damaged by Contractor's operations including equipment/material storage and movement of vehicles.
 - Sod Contractor to ensure sod is placed below sidewalk and all paved area elevations to allow for proper drainage.
- WARRANTY:**
- All plant material (excluding ground cover, perennials and annuals) are to be warranted for a period of 12 months after complete installation of all landscape material at 100% of the installed price.
 - Any plant material found to be defective shall be removed and replaced within 30 days of notification or in growth season determined to be best for that plant.
 - Only one replacement per tree or shrub shall be required at the end of the warranty period, unless loss is due to failure to comply with the warranty.
 - Lawn establishment period will be in effect once the lawn has been mowed three times. Plant establishment period shall commence on the date of acceptance and 100% completion.
 - A written guarantee shall be provided to the owner per conditions outlined in #1 above.



SHRUB PLANTING
N.T.S.

PRUNE ANY BROKEN BRANCHES AFTER PLANTING. DAMAGED SHRUBS OR BROKEN / CRUMBLING ROOT BALLS WILL BE REJECTED.

| REVISIONS | BY |
|-----------|----|
| | |
| | |
| | |
| | |

Landscaping TECHNOLOGIES

67 Jacobs Creek Drive (636) 426-1200
St. Charles, Missouri 63304 (636) 426-1665
NO Landscape Architectural Corporation #2000000202

REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT #000019
DATE: 11-13-18

PLANTING PLAN FOR THE PROPOSED
Kiddie Academy
CHESTERFIELD VILLAGE, N.W. QUADRANT-PARCEL C314
CHESTERFIELD, MISSOURI

DRAWN: R. MARDIS
CHECKED: RAY/EL
DATE: 11-13-18
SCALE: 1"=20'-0"
JOB NO: 2018-163
SHEET: L-1
OF TWO SHEETS

LANDSCAPE REQUIREMENTS:

STREET TREES: 1 per 50 LF FRONTAGE

- 117.31 LF @ W. CHESTERFIELD PKWY., REQUIRING THREE (3) TREES
- 274.46 LF @ HILLTOWN VILLAGE CENTER, REQUIRING FIVE (5) TREES

NOTE: NO PARKING SPACE SHALL BE FURTHER THAN FIFTY (50) FEET FROM A TREE.

TREE GROUPINGS:

A MINIMUM OF 20% OF TREES SHALL COME FROM THREE CATEGORIES: DECIDUOUS / ORNAMENTAL / EVERGREEN

| TYPE | QTY. | PERCENTAGE |
|-------------|------|------------|
| DECIDUOUS: | 13 | 43% |
| ORNAMENTAL: | 6 | 20% |
| EVERGREEN: | 11 | 37% |

6 FAST GROWTH (20%) AND 24 SLOW/MEDIUM GROWTH (80%)

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

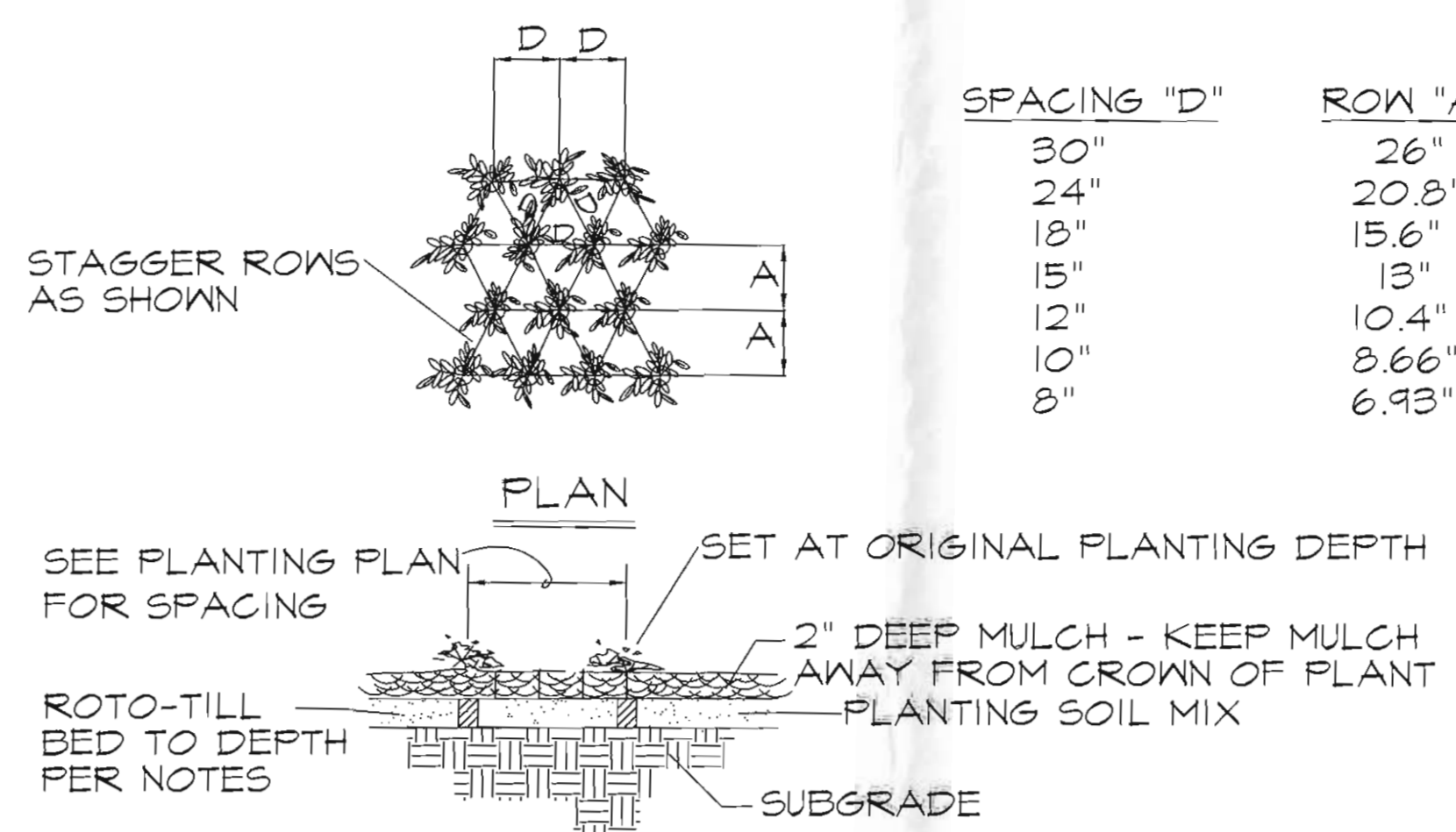
OPEN SPACE

TOTAL SITE: 61,102 SF
BUILDING AREA: 12,000 SF
PARKING / DRIVE AREAS: 20,003 SF
REMAINING OPEN SPACE: 29,099 SF

OPEN SPACE = 29,099 SF TOTAL or 47.6% OF SITE --- 30% MINIMUM REQUIRED

NOTE:
 • ALL NATIVE GRASS PLUGS ARE TO BE A MINIMUM 4.5" DEEP X 2" DIAMETER.
 • CONTRACTOR TO PROVIDE SIGNED AND SEALED SHOP DRAWINGS TO BE APPROVED BY THE PROJECT ENGINEER AND MSD. CONTACT MSD AT 314/395-2012.
 • DURING CONSTRUCTION, THE BIO-RETENTION AREAS MAY TRAP SEDIMENT. FINAL CONSTRUCTION AND PLANTING OF THE BIO-RETENTION AREAS SHALL BE COMPLETED AFTER SILT AND DEBRIS IS REMOVED.
 • HEAVY EQUIPMENT SHALL BE KEPT OFF OF THE SOIL MIX DURING CONSTRUCTION OPERATIONS TO AVOID COMPACTING. FOOT TRAFFIC AND PRE-SOAKING TO AID NATURAL COMPACTION IS ALLOWABLE.
 • SOIL PH SHALL FALL IN THE RANGE OF 5.5 AND 7.
 • SEE CIVIL DRAWINGS FOR CROSS-SECTIONAL DETAILS OF MULCH AND SOIL MAKEUP.

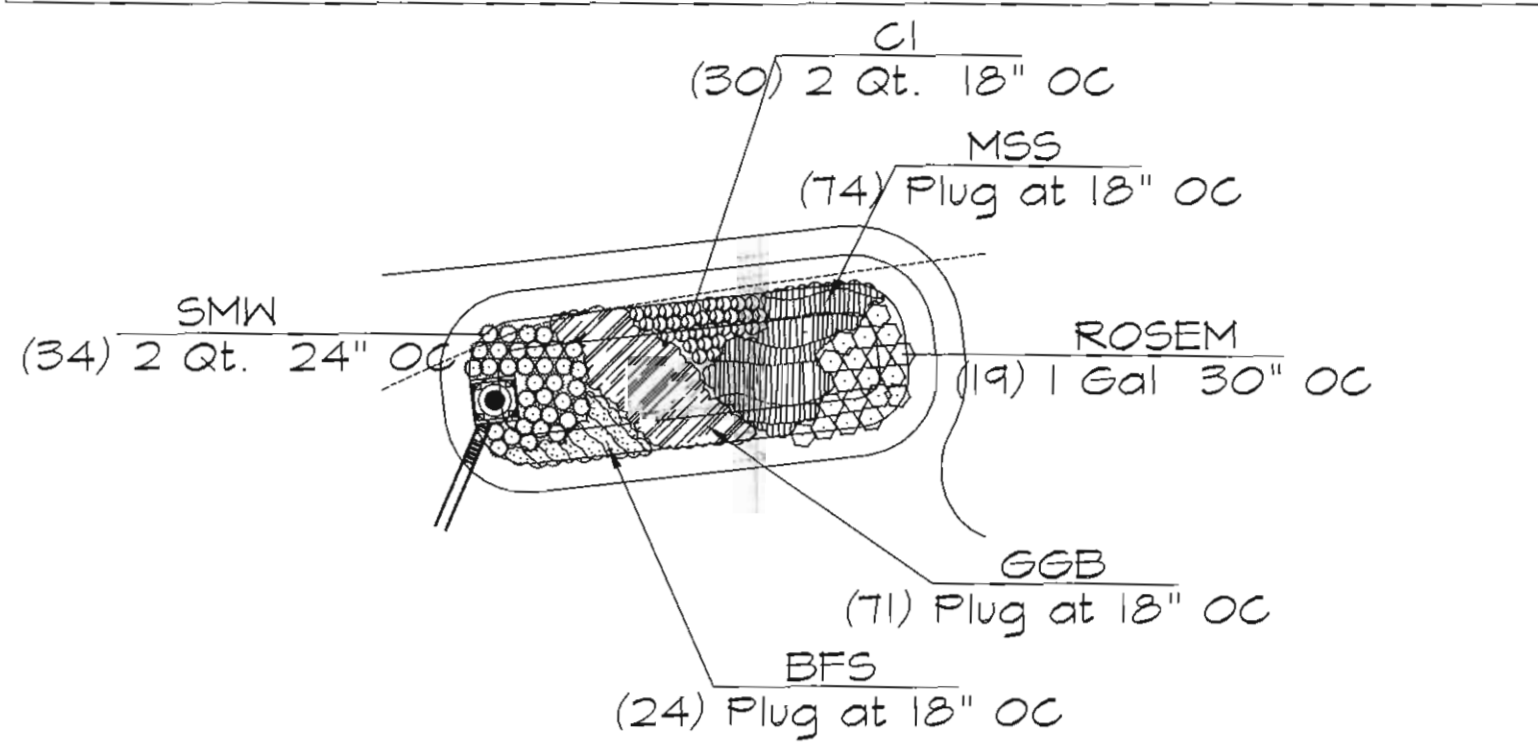
| SPACING "D" | ROW "A" | # OF PLANTS PER SQ. FT. |
|-------------|---------|-------------------------|
| 30" | 26" | 0.16 |
| 24" | 20.5" | 0.25 |
| 18" | 15.6" | 0.45 |
| 15" | 13" | 0.64 |
| 12" | 10.4" | 1.00 |
| 10" | 8.66" | 1.44 |
| 8" | 6.93" | 2.25 |



SECTION
FORB/GRASS PLANTING DETAIL

N.T.S.

BIO-RETENTION MAINTENANCE PROCEDURES:
 1. ADD 2-4 INCHES OF MULCH (SEE CIVIL DNGS. FOR TYPE) TO THE ENTIRE NEWLY PLANTED RAIN GARDEN/BIO-RETENTION AREA. DO NOT COVER THE CROWNS OF THE PERENNIALS. REPLENISH THE MULCH AS NEEDED.
 2. AVOID FINE CUT OR LIGHTER WEIGHT MULCHES AS THEY FLOAT IN WET CONDITIONS.
 3. PRUNE ANY DEAD, DISEASED OR DAMAGED PLANTS AS SOON AS THE PROBLEM IS NOTICED. DEADHEAD PLANTS AS NEEDED AND DIVIDE PERENNIALS EVERY 3-4 YEARS AS NEEDED. LEAVE STEMS AND SEED HEADS STANDING IN FALL/WINTER TO ADD VISUAL INTEREST AND TO PROVIDE FOOD AND COVER FOR BIRDS.
 4. PRUNE THE FOLIAGE OF PERENNIALS WHEN THEY DIE BACK FOR THE WINTER AND ORNAMENTAL GRASSES BEFORE NEW GROWTH BEGINS IN THE SPRING.
 5. HAND WEED BIWEEKLY UNTIL PLANTS ARE ESTABLISHED. THEREAFTER, REMOVE OR SPOT WEEDS AS NECESSARY.
 6. WATER THE GARDEN DURING ITS ESTABLISHMENT AND EXTENDED DRY PERIODS. ONE INCH OF WATER PER WEEK IS RECOMMENDED.
 7. DO NOT USE LAWN FERTILIZERS NEAR GARDEN AREA AS THIS WILL STIMULATE WEED GROWTH.
 8. EACH SPRING, MOW AND REMOVE DEAD VEGETATION. USE BURNING ONLY UNDER SUPERVISION OF LOCAL FIRE DEPARTMENT (NATIVE PLANTS THRIVE UNDER FIRE MANAGEMENT).



BIO-RETENTION LANDSCAPE

N.T.S.

PLANT SCHEDULE

| TREES | QTY | COMMON NAME / BOTANICAL NAME | SIZE | Slow | Moderate | Fast | < 6" | 6 - 18" | 18 - 36" | > 3' | < 18" | 3 - 6' | 6 - 10' | 10 - 15' | > 15' | < 15' | 15 - 25' | 25 - 40' | 40 - 65' | > 65' | |
|--------------------|-----|---|-----------|------|----------|------|------|---------|----------|------|-------|--------|---------|----------|-------|-------|----------|----------|----------|-------|---|
| HACK | 2 | Common Hackberry / <i>Celtis occidentalis</i> | 2.5" Cal. | | X | | | | | | | | | | | | | | | X | |
| GL | 2 | Greenspire Littleleaf Linden / <i>Tilia cordata</i> 'Greenspire' | 2.5" Cal. | | X | | | | | | | | | | | | | | | | X |
| RO | 2 | Red Oak / <i>Quercus rubra</i> | 2.5" Cal. | | | X | | | | | | | | | | | | | | | X |
| SAW | 1 | Sawtooth Oak / <i>Quercus acutissima</i> | 2.5" Cal. | | X | | | | | | | | | | | | | | | | X |
| SVRM | 1 | Sun Valley Red Maple / <i>Acer rubrum</i> 'Sun Valley' | 2.5" Cal. | | | X | | | | | | | | | | | | | | | X |
| OGRM | 1 | 'October Glory' Maple / <i>Acer rubrum</i> 'October Glory' | 2.5" Cal. | | | X | | | | | | | | | | | | | | | X |
| EVERGREEN TREES | QTY | COMMON NAME / BOTANICAL NAME | SIZE | Slow | Moderate | Fast | < 6" | 6 - 18" | 18 - 36" | > 3' | < 18" | 3 - 6' | 6 - 10' | 10 - 15' | > 15' | < 15' | 15 - 25' | 25 - 40' | 40 - 65' | > 65' | |
| BBS | 3 | Bakeri Blue Spruce / <i>Picea pungens</i> 'Bakeri' | 6'-7' | | X | | | | | | | | | | | | | | | | X |
| EMARB | 3 | Emerald Arborvitae / <i>Thuja occidentalis</i> 'Emerald' | 6'-7' | | X | | | | | | | | | | | | X | | | | |
| JNSM | 2 | Sweetbay Magnolia / <i>Magnolia virginiana</i> 'Jim Nilson' | 6'-7' | | X | | | | | | | | | | | | | X | | | |
| FLOWERING TREES | QTY | COMMON NAME / BOTANICAL NAME | SIZE | Slow | Moderate | Fast | < 6" | 6 - 18" | 18 - 36" | > 3' | < 18" | 3 - 6' | 6 - 10' | 10 - 15' | > 15' | < 15' | 15 - 25' | 25 - 40' | 40 - 65' | > 65' | |
| CRCC | 1 | Canada Red Chokeberry / <i>Prunus virginiana</i> 'Canada Red' | 2.5" Cal. | | X | | | | | | | | | | | | | | | | X |
| JTL | 3 | Ivory Silk Japanese Tree Lilac / <i>Syringa reticulata</i> 'Ivory Silk' | 2.5" Cal. | | X | | | | | | | | | | | | | | | | X |
| MREB | 1 | Merlot Redbud / <i>Cercis x 'Merlot'</i> | 2.5" Cal. | | | X | | | | | | | | | | | | | | | X |
| SERV | 1 | 'Autumn Brilliance' Serviceberry / <i>Amelanchier x grandiflora</i> 'Autumn Brilliance' | 2.5" Cal. | | X | | | | | | | | | | | | | | | | X |
| SHRUBS | QTY | COMMON NAME / BOTANICAL NAME | SIZE | Slow | Moderate | Fast | < 6" | 6 - 18" | 18 - 36" | > 3' | < 18" | 3 - 6' | 6 - 10' | 10 - 15' | > 15' | < 15' | 15 - 25' | 25 - 40' | 40 - 65' | > 65' | |
| BUTT-BC | 3 | Blue Chip Butterfly Bush / <i>Buddleja davidii</i> 'Blue Chip' | 5 gal. | | | X | | | | | | X | X | | | | | | | | |
| CN | 3 | Coppertina Ninebark / <i>Physocarpus opulifolius</i> 'Coppertina' | 5 gal. | | X | | | | | | | X | | | | | | | | | |
| DJY | 37 | Dense Japanese Yew / <i>Taxus cuspidata</i> 'Densiflora' | 18"-24" | X | X | | | | | | | X | | | | | | | | | |
| GTJ | 3 | Gold Tip Juniper / <i>Juniperus chinensis</i> 'Gold Tip' | 5 Gal. | X | X | | | | | | | X | | | | | | | | | X |
| GVB | 7 | Green Velvet Boxwood / <i>Buxus</i> 'Green Velvet' | 5 gal. | | | | | | | | | X | | | | | | | | | |
| GLS | 14 | Gro-Low Fragrant Sumac / <i>Rhus aromatica</i> 'Gro-Low' | 5 gal. | | | | | | X | | | | | | | | | | | | |
| LSMA | 9 | Low Scape Mound Chokeberry / <i>Aronia melanocarpa</i> 'Low Scape Mound' | 5 Gal. | | | | | X | | | | | | | | | | | | | |
| ANNUALS/PERENNIALS | QTY | COMMON NAME / BOTANICAL NAME | SIZE | Slow | Moderate | Fast | < 6" | 6 - 18" | 18 - 36" | > 3' | < 18" | 3 - 6' | 6 - 10' | 10 - 15' | > 15' | < 15' | 15 - 25' | 25 - 40' | 40 - 65' | > 65' | |
| LE | 11 | Lamb's Ears / <i>Stachys byzantina</i> 'Silver Carpet' | 1 gal. | | X | | X | | | | | | | | | | | | | | |

PLEASE NOTE:
 • ALL PLANTING BEDS TO BE EDGED W/ SPADE-CUT EDGE UNLESS OTHERWISE NOTED.
 • ADJUST TREE LOCATIONS FOR LIGHT STANDARDS AND UNDERGROUND UTILITIES.
 • NO TREES OR OTHER OBSTRUCTIONS SHALL BE LOCATED WITHIN 6 FEET OF FIRE HYDRANTS.
 • ALL SHRUBS/PERENNIALS WITHIN SIGHT TRIANGLE ZONES TO BE MAINTAINED AT A MAXIMUM HEIGHT OF TWENTY FOUR INCHES (2 FEET); ALL TREES TO BE MAINTAINED WITH A CLEAR HEIGHT FROM GRADE OF TEN (10) FEET.

PLANTING, WATER and MULCH REQUIREMENTS

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

REVISIONS BY

| | |
|--|--|
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| | |
| | |
| | |

Landscaping TECHNOLOGIES
 61 Jacobs Creek Drive
 St. Charles, Missouri 63304
 Tel: (636) 426-1250
 Fax: (636) 426-4863
 No. Landscape Architectural Corporation #200000192

REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT #000018
 DATE: 11-19-18

PLANTING PLAN FOR THE PROPOSED
Kiddie Academy
 CHESTERFIELD VILLAGE, N.W. QUADRANT-PARCEL C314
 CHESTERFIELD, MISSOURI

DRAWN
 R. MARDIS
 CHECKED
 RMM/EL
 DATE
 11-19-18
 SCALE
 N.A.
 JOB NO.
 2018-163
 SHEET
L-2
 OF TWO SHEETS

DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

| | | | |
|-----------|-----------------------------|-------------|----|
| Catalog # | GLEON-AF-01-LED-SL4-800-HSS | Type | F1 |
| Project | | Date | |
| Comments | | Prepared by | |

SPECIFICATION FEATURES

Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested and rated. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics

Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 3000K, 5000K and 6000K CCT.

Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 600mA, 800mA and 1200mA drive currents (nominal).

Mounting

STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during mounting. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the

arm mounting requirement table. Round pole adapter included. For wall mounting, specify wall mount bracket option. **QUICK MOUNT ARM:** Adapter is bolted directly to the pole. Quick mount arm slide into place on the adapter and is secured via two screws, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

Finish

Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard housing colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Warranty

Five-year warranty.



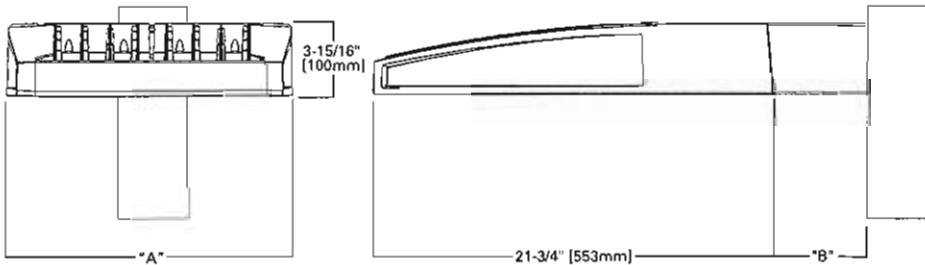
GLEON GALLEON LED

1-10 Light Squares
Solid State LED

AREA/SITE LUMINAIRE



DIMENSIONS

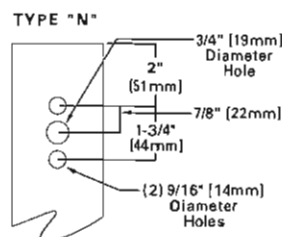


DIMENSION DATA

| Number of Light Squares | "A" Width | "B" Standard Arm Length | "B" Optional Arm Length ¹ | Weight with Arm (lbs.) | EPA with Arm ² (Sq. Ft.) |
|-------------------------|-----------------|-------------------------|--------------------------------------|------------------------|-------------------------------------|
| 1-4 | 15-1/2" (394mm) | 7" (178mm) | 10" (254mm) | 33 (15.0 kgs.) | 0.96 |
| 5-6 | 21-5/8" (549mm) | 7" (178mm) | 10" (254mm) | 44 (20.0 kgs.) | 1.00 |
| 7-8 | 27-5/8" (702mm) | 7" (178mm) | 13" (330mm) | 54 (24.5 kgs.) | 1.07 |
| 9-10 | 33-3/4" (857mm) | 7" (178mm) | 16" (406mm) | 63 (28.6 kgs.) | 1.12 |

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.

DRILLING PATTERN



CERTIFICATION DATA

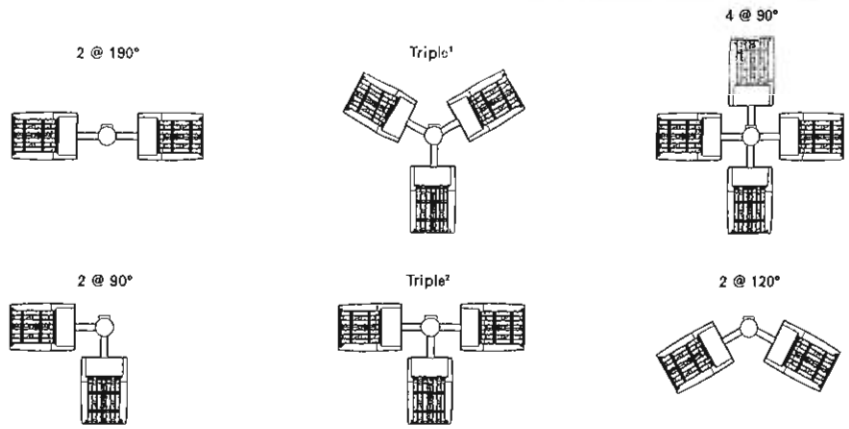
UL/cUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
IP66 Rated
DesignLights Consortium® Qualified*

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V & 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)

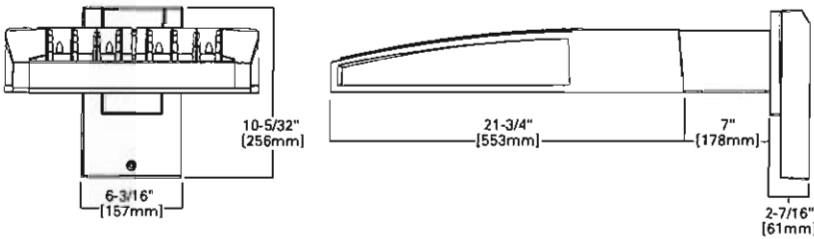
ARM MOUNTING REQUIREMENTS

| Configuration | 90° Apart | 120° Apart |
|---------------|-----------------------------|-----------------------------|
| GLEON-AF-01 | 7" Arm (Standard) | 7" Arm (Standard) |
| GLEON-AF-02 | 7" Arm (Standard) | 7" Arm (Standard) |
| GLEON-AF-03 | 7" Arm (Standard) | 7" Arm (Standard) |
| GLEON-AF-04 | 7" Arm (Standard) | 7" Arm (Standard) |
| GLEON-AF-05 | 10" Extended Arm (Required) | 7" Arm (Standard) |
| GLEON-AF-06 | 10" Extended Arm (Required) | 7" Arm (Standard) |
| GLEON-AF-07 | 13" Extended Arm (Required) | 13" Extended Arm (Required) |
| GLEON-AF-08 | 13" Extended Arm (Required) | 13" Extended Arm (Required) |
| GLEON-AF-09 | 16" Extended Arm (Required) | 16" Extended Arm (Required) |
| GLEON-AF-10 | 16" Extended Arm (Required) | 16" Extended Arm (Required) |

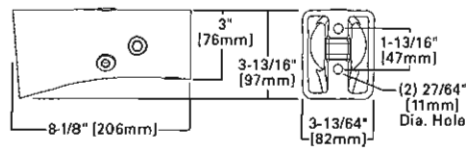


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

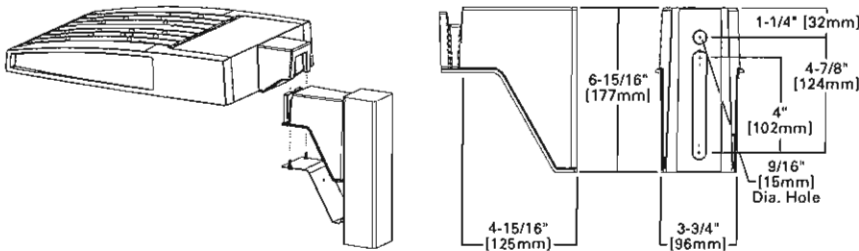
STANDARD WALL MOUNT



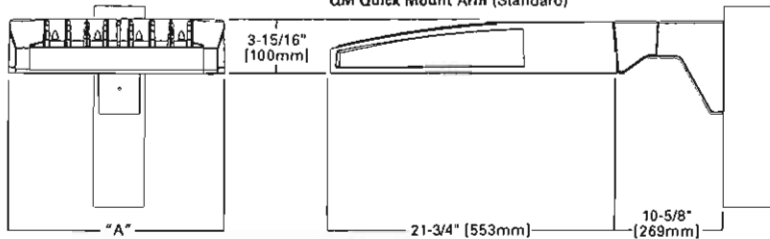
MAST ARM MOUNT



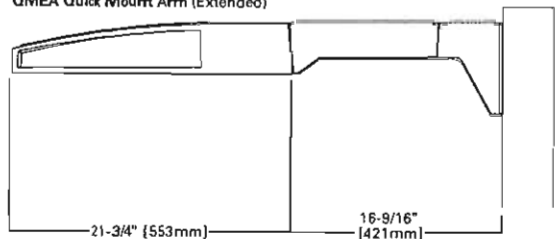
QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)



QM Quick Mount Arm (Standard)



QMEA Quick Mount Arm (Extended)

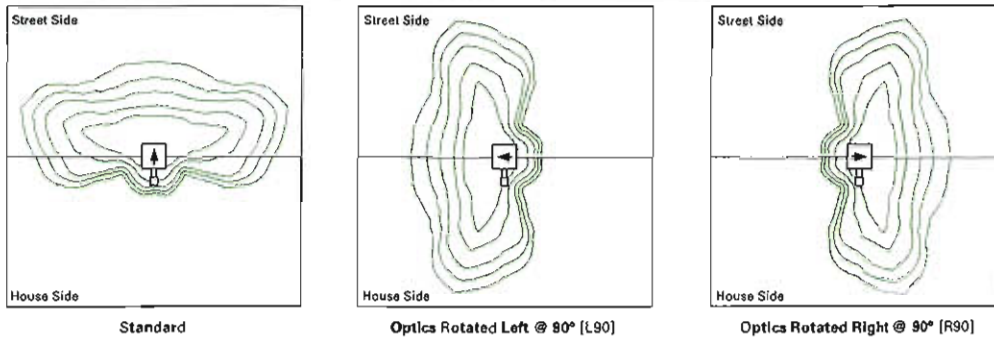


QUICK MOUNT ARM DATA

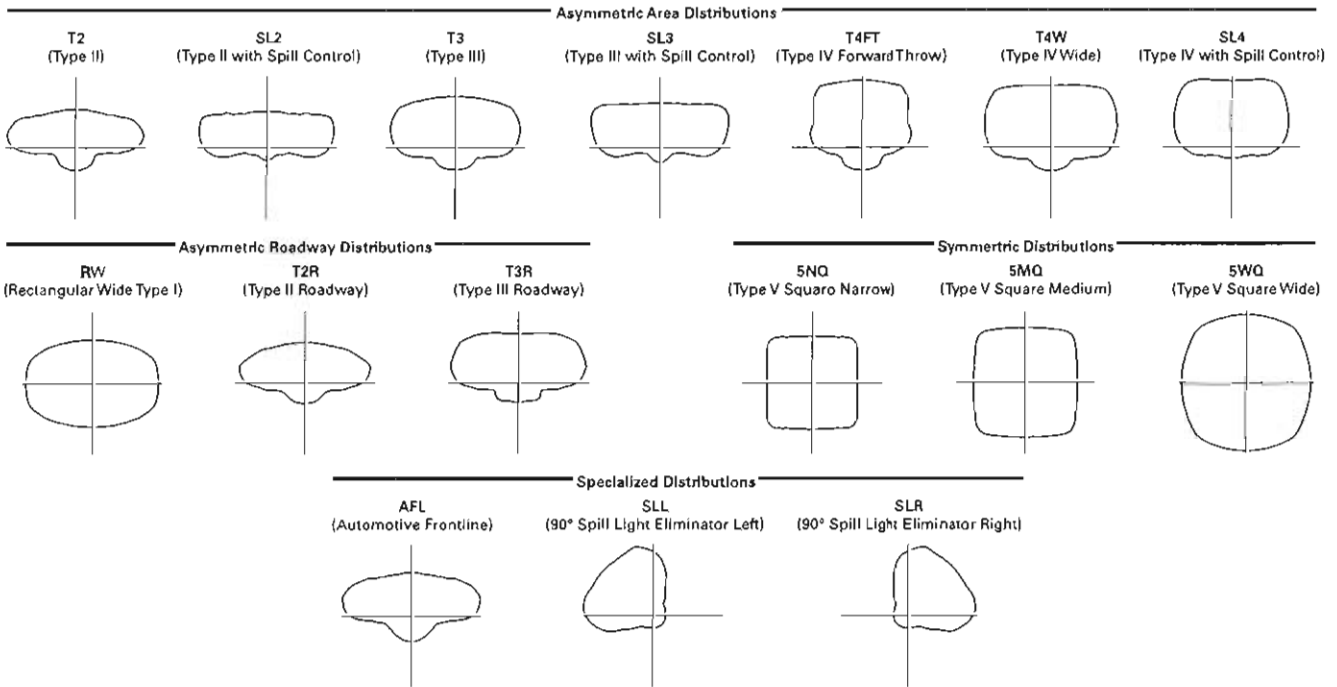
| Number of Light Squares ^{1,2} | "A" Width | Weight with QM Arm (lbs.) | Weight with QMEA Arm (lbs.) | EPA (Sq. Ft.) |
|--|-----------------|---------------------------|-----------------------------|---------------|
| 1-4 | 16-1/2" (394mm) | 35 (15.91 kgs.) | 39 (17.27 kgs.) | 1.11 |
| 5-6 ³ | 21-5/8" (549mm) | 46 (20.91 kgs.) | 49 (22.27 kgs.) | |
| 7-8 | 27-5/8" (702mm) | 56 (25.45 kgs.) | 59 (26.82 kgs.) | |

NOTES: 1 QM option available with 1-8 light square configurations. 2 QMEA option available with 1-6 light square configurations. 3 QMEA arm to be used when mounting two fixtures at 90° on a single pole.

OPTIC ORIENTATION



OPTICAL DISTRIBUTIONS

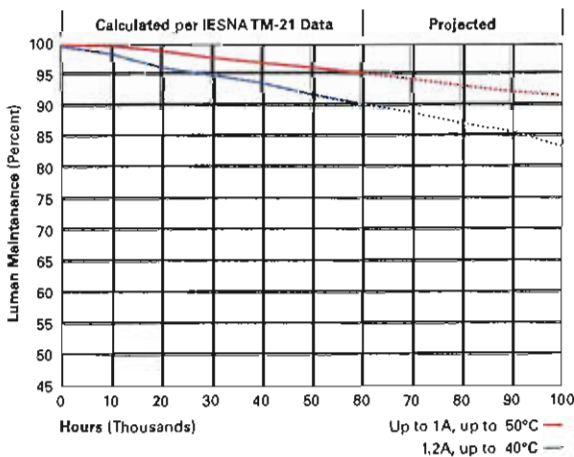


LUMEN MAINTENANCE

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

LUMEN MULTIPLIER

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



NOMINAL POWER LUMENS (1.2A)

| Number of Light Squares | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|--------------------------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Nominal Power (Watts) | | 67 | 129 | 191 | 258 | 320 | 382 | 448 | 511 | 575 | 640 |
| Input Current @ 120V (A) | | 0.58 | 1.16 | 1.78 | 2.31 | 2.94 | 3.56 | 4.09 | 4.71 | 5.34 | 5.87 |
| Input Current @ 208V (A) | | 0.33 | 0.53 | 0.93 | 1.27 | 1.57 | 1.87 | 2.22 | 2.52 | 2.8 | 3.14 |
| Input Current @ 240V (A) | | 0.29 | 0.55 | 0.80 | 1.10 | 1.35 | 1.61 | 1.93 | 2.18 | 2.41 | 2.71 |
| Input Current @ 277V (A) | | 0.25 | 0.48 | 0.70 | 0.96 | 1.18 | 1.39 | 1.59 | 1.90 | 2.09 | 2.36 |
| Input Current @ 347V (A) | | 0.20 | 0.39 | 0.57 | 0.78 | 0.96 | 1.15 | 1.36 | 1.54 | 1.72 | 1.92 |
| Input Current @ 480V (A) | | 0.15 | 0.30 | 0.43 | 0.60 | 0.73 | 0.85 | 1.03 | 1.16 | 1.28 | 1.45 |
| Optics | | | | | | | | | | | |
| T2 | 4000K/5000K Lumens | 6,709 | 13,111 | 19,562 | 25,848 | 32,025 | 38,325 | 45,324 | 51,355 | 57,286 | 63,424 |
| | 3000K Lumens | 5,939 | 11,606 | 17,316 | 22,881 | 28,349 | 33,925 | 40,121 | 45,469 | 50,710 | 56,143 |
| | BUG Rating | B1-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| T2R | 4000K/5000K Lumens | 7,122 | 13,919 | 20,769 | 27,442 | 34,000 | 40,687 | 48,117 | 54,519 | 60,816 | 67,333 |
| | 3000K Lumens | 5,939 | 11,606 | 17,316 | 22,881 | 28,349 | 33,925 | 40,121 | 45,459 | 50,710 | 56,143 |
| | BUG Rating | B1-U0-G1 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| T3 | 4000K/5000K Lumens | 6,838 | 13,363 | 19,939 | 26,346 | 32,642 | 39,062 | 46,196 | 52,343 | 58,388 | 64,646 |
| | 3000K Lumens | 6,053 | 11,829 | 17,850 | 23,321 | 28,895 | 34,578 | 40,893 | 46,334 | 51,685 | 57,226 |
| | BUG Rating | B1-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| T3R | 4000K/5000K Lumens | 6,990 | 13,650 | 20,382 | 26,931 | 33,368 | 38,830 | 47,223 | 53,606 | 59,688 | 66,081 |
| | 3000K Lumens | 6,188 | 12,092 | 18,042 | 23,839 | 29,537 | 35,346 | 41,802 | 47,364 | 52,834 | 58,495 |
| | BUG Rating | B1-U0-G2 | B2-U0-G3 | B2-U0-G3 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| T4FT | 4000K/5000K Lumens | 5,878 | 13,440 | 20,055 | 26,499 | 32,832 | 38,289 | 46,464 | 52,646 | 58,726 | 65,020 |
| | 3000K Lumens | 8,088 | 11,887 | 17,753 | 23,457 | 28,063 | 34,779 | 41,130 | 46,602 | 51,984 | 57,556 |
| | BUG Rating | B1-U0-G2 | B2-U0-G3 | B2-U0-G4 | B3-U0-G4 | B3-U0-G6 | B3-U0-G5 | B3-U0-G6 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| T4W | 4000K/5000K Lumens | 6,788 | 13,267 | 18,785 | 26,156 | 32,408 | 38,781 | 45,864 | 51,967 | 57,868 | 64,180 |
| | 3000K Lumens | 6,010 | 11,744 | 17,523 | 23,153 | 28,688 | 34,329 | 40,599 | 46,001 | 51,313 | 56,812 |
| | BUG Rating | B1-U0-G2 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| SL2 | 4000K/5000K Lumens | 6,697 | 13,088 | 19,529 | 25,804 | 31,970 | 38,259 | 45,245 | 51,267 | 57,186 | 63,315 |
| | 3000K Lumens | 5,928 | 11,686 | 17,287 | 22,842 | 28,300 | 33,867 | 40,051 | 45,382 | 50,621 | 56,048 |
| | BUG Rating | B1-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| SL3 | 4000K/5000K Lumens | 6,837 | 13,361 | 19,936 | 26,342 | 32,639 | 38,057 | 46,188 | 52,336 | 58,380 | 64,636 |
| | 3000K Lumens | 6,052 | 11,827 | 17,647 | 23,318 | 28,892 | 34,573 | 40,887 | 46,328 | 51,878 | 57,216 |
| | BUG Rating | B1-U0-G2 | B2-U0-G3 | B2-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| SL4 | 4000K/5000K Lumens | 6,495 | 12,695 | 18,943 | 25,029 | 31,011 | 37,110 | 43,886 | 49,727 | 55,470 | 61,414 |
| | 3000K Lumens | 5,750 | 11,238 | 16,768 | 22,156 | 27,461 | 32,860 | 38,848 | 44,018 | 49,102 | 54,364 |
| | BUG Rating | B1-U0-G2 | B1-U0-G3 | B2-U0-G4 | B2-U0-G4 | B2-U0-G6 | B3-U0-G5 | B3-U0-G5 | B3-U0-G6 | B3-U0-G5 | B3-U0-G5 |
| 5NQ | 4000K/5000K Lumens | 7,052 | 13,781 | 20,664 | 27,171 | 33,664 | 40,285 | 47,641 | 53,981 | 60,215 | 66,669 |
| | 3000K Lumens | 6,242 | 12,199 | 18,203 | 24,052 | 29,799 | 35,680 | 42,172 | 47,784 | 53,302 | 59,015 |
| | BUG Rating | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 |
| 5MQ | 4000K/5000K Lumens | 7,182 | 14,034 | 20,942 | 27,671 | 34,284 | 41,027 | 48,518 | 54,975 | 61,323 | 67,886 |
| | 3000K Lumens | 6,358 | 12,423 | 18,538 | 24,484 | 30,348 | 36,317 | 42,948 | 48,664 | 54,283 | 60,102 |
| | BUG Rating | B3-U0-G1 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 | B5-U0-G5 | B5-U0-G5 | B5-U0-G5 |
| 5WQ | 4000K/5000K Lumens | 7,201 | 14,073 | 20,998 | 27,744 | 34,375 | 41,136 | 48,648 | 55,121 | 61,487 | 68,077 |
| | 3000K Lumens | 8,374 | 12,457 | 18,587 | 24,558 | 30,429 | 36,414 | 43,063 | 48,793 | 54,428 | 60,262 |
| | BUG Rating | B3-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 | B5-U0-G5 | B5-U0-G5 | B5-U0-G5 | B5-U0-G5 |
| SLL/SLR | 4000K/5000K Lumens | 6,009 | 11,741 | 17,519 | 23,148 | 28,681 | 34,321 | 40,589 | 45,990 | 51,301 | 56,798 |
| | 3000K Lumens | 5,319 | 10,393 | 15,508 | 20,491 | 25,388 | 30,381 | 35,929 | 40,710 | 45,412 | 50,278 |
| | BUG Rating | B1-U0-G2 | B2-U0-G3 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G6 | B4-U0-G5 |
| RW | 4000K/5000K Lumens | 6,989 | 13,657 | 20,378 | 28,925 | 33,360 | 39,921 | 47,211 | 53,494 | 59,672 | 66,068 |
| | 3000K Lumens | 6,187 | 12,089 | 18,039 | 23,834 | 29,530 | 35,338 | 41,791 | 47,353 | 52,822 | 58,482 |
| | BUG Rating | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 |
| AFL | 4000K/5000K Lumens | 7,014 | 13,706 | 20,452 | 27,023 | 33,481 | 40,065 | 47,383 | 53,688 | 59,868 | 66,306 |
| | 3000K Lumens | 6,209 | 12,133 | 18,104 | 23,921 | 29,637 | 35,466 | 41,843 | 47,525 | 53,013 | 58,694 |
| | BUG Rating | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G4 | B4-U0-G4 | B4-U0-G4 |

* Nominal data for 70 CRI.

NOMINAL POWER LUMENS (1A)

| Number of Light Squares | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|--------------------------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Nominal Power (Watts) | 59 | 113 | 166 | 225 | 279 | 333 | 391 | 445 | 501 | 558 | |
| Input Current @ 120V (A) | 0.51 | 1.02 | 1.53 | 2.03 | 2.55 | 3.06 | 3.56 | 4.08 | 4.6 | 5.07 | |
| Input Current @ 208V (A) | 0.29 | 0.56 | 0.92 | 1.11 | 1.37 | 1.64 | 1.93 | 2.19 | 2.46 | 2.75 | |
| Input Current @ 240V (A) | 0.26 | 0.48 | 0.71 | 0.96 | 1.19 | 1.41 | 1.67 | 1.89 | 2.12 | 2.39 | |
| Input Current @ 277V (A) | 0.23 | 0.42 | 0.61 | 0.83 | 1.03 | 1.23 | 1.45 | 1.65 | 1.84 | 2.09 | |
| Input Current @ 347V (A) | 0.17 | 0.32 | 0.50 | 0.64 | 0.82 | 1.00 | 1.14 | 1.32 | 1.60 | 1.68 | |
| Input Current @ 480V (A) | 0.14 | 0.24 | 0.37 | 0.48 | 0.61 | 0.75 | 0.91 | 0.99 | 1.12 | 1.28 | |
| Optics | | | | | | | | | | | |
| T2 | 4000K/5000K Lumens | 6,116 | 11,951 | 17,833 | 23,663 | 29,196 | 34,937 | 41,317 | 46,814 | 52,221 | 67,817 |
| | 3000K Lumens | 5,414 | 10,579 | 15,786 | 20,868 | 25,843 | 30,926 | 36,574 | 41,440 | 46,226 | 51,180 |
| | BUG Rating | B1-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| T2R | 4000K/5000K Lumens | 6,493 | 12,688 | 18,932 | 25,015 | 30,994 | 37,090 | 43,863 | 49,699 | 55,439 | 61,380 |
| | 3000K Lumens | 5,748 | 11,231 | 16,759 | 22,143 | 27,436 | 32,832 | 38,828 | 43,994 | 49,075 | 54,334 |
| | BUG Rating | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| T3 | 4000K/5000K Lumens | 6,234 | 12,181 | 18,176 | 24,017 | 29,756 | 35,609 | 42,111 | 47,716 | 53,225 | 58,830 |
| | 3000K Lumens | 5,518 | 10,783 | 16,089 | 21,260 | 26,340 | 31,521 | 37,277 | 42,237 | 47,115 | 52,165 |
| | BUG Rating | B1-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| T3R | 4000K/5000K Lumens | 6,372 | 12,453 | 18,580 | 24,550 | 30,418 | 38,400 | 43,048 | 48,776 | 54,409 | 60,239 |
| | 3000K Lumens | 5,640 | 11,023 | 16,447 | 21,732 | 28,928 | 32,221 | 38,108 | 43,177 | 48,163 | 53,324 |
| | BUG Rating | B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 |
| T4FT | 4000K/5000K Lumens | 6,270 | 12,252 | 18,282 | 24,156 | 29,929 | 35,815 | 42,356 | 47,892 | 53,634 | 59,271 |
| | 3000K Lumens | 6,550 | 10,845 | 16,183 | 21,383 | 26,493 | 31,703 | 37,494 | 42,483 | 47,388 | 52,457 |
| | BUG Rating | B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| T4W | 4000K/5000K Lumens | 6,188 | 12,094 | 18,045 | 23,844 | 29,543 | 35,352 | 41,809 | 47,372 | 52,843 | 58,506 |
| | 3000K Lumens | 5,479 | 10,706 | 15,973 | 21,107 | 26,151 | 31,294 | 37,009 | 41,934 | 48,777 | 51,790 |
| | BUG Rating | B1-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| SL2 | 4000K/5000K Lumens | 6,105 | 11,831 | 17,803 | 23,522 | 29,144 | 34,877 | 41,245 | 48,734 | 52,130 | 57,717 |
| | 3000K Lumens | 5,404 | 10,561 | 15,758 | 20,822 | 26,788 | 30,873 | 36,510 | 41,369 | 46,145 | 51,091 |
| | BUG Rating | B1-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| SL3 | 4000K/5000K Lumens | 6,233 | 12,180 | 18,174 | 24,013 | 29,753 | 35,604 | 42,106 | 47,708 | 53,218 | 58,921 |
| | 3000K Lumens | 6,517 | 10,782 | 16,088 | 21,256 | 26,337 | 31,517 | 37,272 | 42,231 | 47,109 | 52,157 |
| | BUG Rating | B1-U0-G2 | B2-U0-G3 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G6 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| SL4 | 4000K/5000K Lumens | 6,922 | 11,672 | 17,268 | 22,816 | 28,269 | 33,829 | 40,006 | 45,330 | 50,666 | 55,984 |
| | 3000K Lumens | 5,242 | 10,244 | 16,286 | 20,197 | 25,024 | 29,945 | 35,413 | 40,126 | 44,761 | 49,557 |
| | BUG Rating | B1-U0-G2 | B1-U0-G3 | B2-U0-G3 | B2-U0-G4 | B2-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 |
| SNQ | 4000K/5000K Lumens | 6,429 | 12,563 | 18,746 | 24,768 | 30,688 | 36,723 | 43,429 | 49,208 | 54,891 | 60,775 |
| | 3000K Lumens | 5,691 | 11,121 | 16,584 | 21,925 | 27,165 | 32,507 | 38,443 | 43,559 | 48,590 | 53,798 |
| | BUG Rating | B2-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 |
| 5MQ | 4000K/5000K Lumens | 6,647 | 12,794 | 19,080 | 25,224 | 31,253 | 37,400 | 44,228 | 50,114 | 56,902 | 61,893 |
| | 3000K Lumens | 6,796 | 11,325 | 16,898 | 22,328 | 27,665 | 33,106 | 39,151 | 44,361 | 49,484 | 54,788 |
| | BUG Rating | B3-U0-G1 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 | B6-U0-G5 | B5-U0-G5 |
| 5WQ | 4000K/5000K Lumens | 6,564 | 12,828 | 18,141 | 25,291 | 31,336 | 37,499 | 44,347 | 50,248 | 56,051 | 62,058 |
| | 3000K Lumens | 6,810 | 11,355 | 16,944 | 22,388 | 27,739 | 33,194 | 39,256 | 44,480 | 49,616 | 54,934 |
| | BUG Rating | B3-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G5 | B5-U0-G5 | B5-U0-G5 | B5-U0-G5 |
| SLL/SLR | 4000K/5000K Lumens | 6,478 | 10,703 | 15,970 | 21,102 | 26,145 | 31,286 | 37,001 | 41,924 | 46,765 | 51,777 |
| | 3000K Lumens | 4,848 | 9,474 | 14,137 | 18,679 | 23,144 | 27,694 | 32,763 | 37,111 | 41,396 | 46,833 |
| | BUG Rating | B1-U0-G2 | B1-U0-G3 | B2-U0-G3 | B2-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G6 | B3-U0-G5 | B3-U0-G5 | B3-U0-G6 |
| RW | 4000K/5000K Lumens | 6,371 | 12,449 | 18,676 | 24,544 | 30,411 | 36,392 | 43,037 | 48,764 | 54,386 | 60,225 |
| | 3000K Lumens | 5,640 | 11,020 | 16,443 | 21,726 | 26,820 | 32,214 | 38,096 | 43,166 | 48,151 | 53,311 |
| | BUG Rating | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 |
| AFL | 4000K/5000K Lumens | 6,394 | 12,494 | 18,644 | 24,634 | 30,521 | 36,524 | 43,194 | 48,942 | 54,593 | 60,444 |
| | 3000K Lumens | 5,660 | 11,060 | 16,504 | 21,806 | 27,017 | 32,331 | 38,235 | 43,323 | 48,326 | 53,505 |
| | BUG Rating | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B3-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B4-U0-G4 | B4-U0-G4 |

* Nominal data for 70 CRI.

NOMINAL POWER LUMENS (800MA)

| Number of Light Squeres | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|--------------------------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Nominal Power (Watts) | | 44 | 85 | 124 | 171 | 210 | 249 | 295 | 334 | 374 | 419 |
| Input Current @ 120V (A) | | 0.39 | 0.77 | 1.13 | 1.54 | 1.90 | 2.26 | 2.67 | 3.03 | 3.39 | 3.80 |
| Input Current @ 208V (A) | | 0.22 | 0.44 | 0.62 | 0.88 | 1.06 | 1.24 | 1.50 | 1.68 | 1.87 | 2.12 |
| Input Current @ 240V (A) | | 0.19 | 0.38 | 0.54 | 0.76 | 0.92 | 1.08 | 1.30 | 1.46 | 1.62 | 1.84 |
| Input Current @ 277V (A) | | 0.17 | 0.36 | 0.47 | 0.72 | 0.83 | 0.85 | 1.18 | 1.31 | 1.42 | 1.67 |
| Input Current @ 347V (A) | | 0.15 | 0.24 | 0.38 | 0.49 | 0.63 | 0.77 | 0.87 | 1.01 | 1.15 | 1.52 |
| Input Current @ 480V (A) | | 0.11 | 0.18 | 0.28 | 0.37 | 0.48 | 0.59 | 0.66 | 0.77 | 0.88 | 0.96 |
| Optics | | | | | | | | | | | |
| T2 | 4000K/5000K Lumens | 4,941 | 8,656 | 14,408 | 19,038 | 23,588 | 28,227 | 33,382 | 37,823 | 42,191 | 46,713 |
| | 3000K Lumens | 4,374 | 8,547 | 12,754 | 16,852 | 20,880 | 24,887 | 29,550 | 33,481 | 37,347 | 41,350 |
| | BUG Rating | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B4-U0-G5 | B4-U0-G5 |
| T2R | 4000K/5000K Lumens | 5,246 | 10,251 | 15,286 | 20,211 | 25,041 | 29,866 | 35,439 | 40,154 | 44,791 | 49,592 |
| | 3000K Lumens | 4,644 | 8,074 | 13,640 | 17,891 | 22,166 | 26,626 | 31,371 | 35,544 | 38,649 | 43,899 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 |
| T3 | 4000K/5000K Lumens | 5,037 | 8,842 | 14,685 | 19,404 | 24,041 | 28,770 | 34,024 | 38,551 | 43,003 | 47,612 |
| | 3000K Lumens | 4,459 | 8,712 | 12,999 | 17,176 | 21,281 | 25,467 | 30,118 | 34,125 | 38,066 | 42,146 |
| | BUG Rating | B1-U0-G1 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| T3R | 4000K/5000K Lumens | 6,148 | 10,061 | 15,011 | 19,835 | 24,676 | 29,409 | 34,780 | 39,408 | 43,859 | 48,669 |
| | 3000K Lumens | 4,557 | 8,906 | 13,288 | 17,558 | 21,755 | 26,033 | 30,787 | 34,884 | 38,913 | 43,082 |
| | BUG Rating | B1-U0-G2 | B1-U0-G2 | B2-U0-G3 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 |
| T4FT | 4000K/5000K Lumens | 5,066 | 9,899 | 14,770 | 19,516 | 24,181 | 28,936 | 34,221 | 38,774 | 43,252 | 47,888 |
| | 3000K Lumens | 4,484 | 8,763 | 13,074 | 17,276 | 21,405 | 25,614 | 30,292 | 34,323 | 38,287 | 42,390 |
| | BUG Rating | B1-U0-G2 | B1-U0-G2 | B2-U0-G3 | B2-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G6 | B3-U0-G6 | B3-U0-G5 |
| T4W | 4000K/5000K Lumens | 5,000 | 9,771 | 14,579 | 19,264 | 23,869 | 28,662 | 33,779 | 38,274 | 42,694 | 47,269 |
| | 3000K Lumens | 4,426 | 8,649 | 12,905 | 17,062 | 21,129 | 25,283 | 29,901 | 33,880 | 37,793 | 41,843 |
| | BUG Rating | B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| SL2 | 4000K/5000K Lumens | 4,933 | 9,639 | 14,383 | 19,005 | 23,547 | 28,178 | 33,324 | 37,758 | 42,118 | 46,532 |
| | 3000K Lumens | 4,367 | 8,532 | 12,732 | 18,823 | 20,844 | 24,943 | 29,498 | 33,423 | 37,283 | 41,279 |
| | BUG Rating | B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| SL3 | 4000K/5000K Lumens | 5,035 | 9,841 | 14,683 | 19,401 | 24,039 | 28,765 | 34,018 | 38,548 | 42,997 | 47,605 |
| | 3000K Lumens | 4,458 | 8,711 | 12,997 | 17,174 | 21,279 | 25,464 | 30,114 | 34,121 | 38,061 | 42,140 |
| | BUG Rating | B1-U0-G2 | B1-U0-G2 | B2-U0-G3 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 |
| SL4 | 4000K/5000K Lumens | 4,784 | 9,350 | 13,951 | 18,434 | 22,840 | 27,332 | 32,323 | 36,524 | 40,854 | 45,232 |
| | 3000K Lumens | 4,235 | 8,277 | 12,349 | 16,318 | 20,218 | 24,194 | 28,512 | 32,420 | 36,164 | 40,039 |
| | BUG Rating | B1-U0-G2 | B1-U0-G3 | B1-U0-G3 | B2-U0-G4 | B2-U0-G4 | B2-U0-G5 | B2-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 |
| 5NQ | 4000K/5000K Lumens | 5,194 | 10,150 | 15,145 | 20,011 | 24,794 | 29,870 | 35,088 | 39,757 | 44,349 | 49,102 |
| | 3000K Lumens | 4,598 | 8,985 | 13,406 | 17,714 | 21,948 | 26,254 | 31,050 | 35,193 | 39,268 | 43,465 |
| | BUG Rating | B2-U0-G1 | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G3 | B5-U0-G3 |
| 5MQ | 4000K/5000K Lumens | 5,290 | 10,337 | 15,424 | 20,380 | 25,250 | 30,217 | 35,734 | 40,489 | 45,165 | 50,006 |
| | 3000K Lumens | 4,683 | 9,150 | 13,653 | 18,040 | 22,351 | 26,748 | 31,632 | 35,841 | 39,980 | 44,265 |
| | BUG Rating | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 |
| 5WQ | 4000K/5000K Lumens | 5,304 | 10,365 | 15,465 | 20,434 | 26,318 | 30,297 | 35,830 | 40,597 | 45,286 | 50,139 |
| | 3000K Lumens | 4,696 | 9,175 | 13,690 | 18,088 | 22,411 | 26,819 | 31,717 | 35,936 | 40,087 | 44,383 |
| | BUG Rating | B3-U0-G1 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 | B5-U0-G5 | B5-U0-G5 |
| SLL/SLR | 4000K/5000K Lumens | 4,426 | 8,648 | 12,903 | 17,049 | 21,124 | 25,278 | 29,894 | 33,872 | 37,784 | 41,832 |
| | 3000K Lumens | 3,918 | 7,655 | 11,422 | 15,092 | 18,699 | 22,376 | 26,462 | 29,983 | 33,445 | 37,030 |
| | BUG Rating | B1-U0-G2 | B1-U0-G2 | B2-U0-G3 | B2-U0-G3 | B2-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 |
| RW | 4000K/5000K Lumens | 6,147 | 10,058 | 15,008 | 19,830 | 24,570 | 29,402 | 34,771 | 39,399 | 43,949 | 48,558 |
| | 3000K Lumens | 4,556 | 8,903 | 13,286 | 17,554 | 21,749 | 26,027 | 30,779 | 34,876 | 38,904 | 43,072 |
| | BUG Rating | B2-U0-G1 | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 |
| AFL | 4000K/5000K Lumens | 5,186 | 10,095 | 15,053 | 19,903 | 24,659 | 29,509 | 34,898 | 39,542 | 44,108 | 48,835 |
| | 3000K Lumens | 4,573 | 8,936 | 13,334 | 17,618 | 21,828 | 26,121 | 30,892 | 35,003 | 39,044 | 43,229 |
| | BUG Rating | B1-U0-G1 | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B3-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 |

* Nominal data for 70 CRI.

NOMINAL POWER LUMENS (600MA)

| Number of Light Squares | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|--------------------------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Nominal Power (Watts) | 34 | 66 | 96 | 129 | 162 | 193 | 226 | 257 | 290 | 323 | |
| Input Current @ 120V (A) | 0.30 | 0.58 | 0.86 | 1.16 | 1.44 | 1.73 | 2.03 | 2.33 | 2.59 | 2.89 | |
| Input Current @ 208V (A) | 0.17 | 0.34 | 0.49 | 0.65 | 0.84 | 0.99 | 1.14 | 1.30 | 1.48 | 1.63 | |
| Input Current @ 240V (A) | 0.15 | 0.30 | 0.43 | 0.56 | 0.74 | 0.87 | 1.00 | 1.13 | 1.30 | 1.43 | |
| Input Current @ 277V (A) | 0.14 | 0.28 | 0.41 | 0.52 | 0.69 | 0.81 | 0.93 | 1.04 | 1.22 | 1.33 | |
| Input Current @ 347V (A) | 0.11 | 0.19 | 0.30 | 0.39 | 0.49 | 0.60 | 0.69 | 0.77 | 0.90 | 0.99 | |
| Input Current @ 480V (A) | 0.08 | 0.16 | 0.24 | 0.30 | 0.38 | 0.48 | 0.53 | 0.59 | 0.71 | 0.77 | |
| Optics | | | | | | | | | | | |
| T2 | 4000K/5000K Lumens | 4,029 | 7,874 | 11,749 | 15,525 | 19,235 | 23,019 | 27,222 | 30,844 | 34,406 | 38,093 |
| | 3000K Lumens | 3,566 | 6,970 | 10,400 | 13,743 | 17,027 | 20,376 | 24,097 | 27,303 | 30,456 | 33,720 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 |
| T2R | 4000K/5000K Lumens | 4,278 | 8,360 | 12,474 | 16,482 | 20,421 | 24,437 | 28,900 | 32,745 | 36,527 | 40,441 |
| | 3000K Lumens | 3,787 | 7,400 | 11,042 | 14,590 | 18,077 | 21,632 | 25,582 | 28,986 | 32,334 | 35,798 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 |
| T3 | 4000K/6000K Lumens | 4,107 | 8,026 | 11,976 | 15,824 | 18,605 | 23,461 | 27,746 | 31,438 | 35,068 | 38,827 |
| | 3000K Lumens | 3,636 | 7,105 | 10,601 | 14,007 | 17,354 | 20,768 | 24,561 | 27,829 | 31,042 | 34,370 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 |
| T3R | 4000K/5000K Lumens | 4,198 | 8,205 | 12,242 | 16,175 | 20,041 | 23,982 | 28,363 | 32,137 | 35,848 | 39,689 |
| | 3000K Lumens | 3,716 | 7,263 | 10,837 | 14,318 | 17,740 | 21,229 | 25,107 | 28,448 | 31,733 | 35,133 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 |
| T4FT | 4000K/5000K Lumens | 4,131 | 8,072 | 12,046 | 15,915 | 19,719 | 23,597 | 27,907 | 31,620 | 35,272 | 38,052 |
| | 3000K Lumens | 3,657 | 7,145 | 10,662 | 14,088 | 17,465 | 20,888 | 24,703 | 27,890 | 31,223 | 34,569 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B2-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 |
| T4W | 4000K/5000K Lumens | 4,077 | 7,968 | 11,889 | 15,710 | 19,465 | 23,292 | 27,546 | 31,212 | 34,816 | 38,547 |
| | 3000K Lumens | 3,609 | 7,053 | 10,524 | 13,906 | 17,230 | 20,618 | 24,384 | 27,628 | 30,819 | 34,122 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G6 | B3-U0-G5 | B3-U0-G5 |
| SL2 | 4000K/5000K Lumens | 4,022 | 7,861 | 11,729 | 15,498 | 19,202 | 22,979 | 27,175 | 30,791 | 34,347 | 38,028 |
| | 3000K Lumens | 3,560 | 6,959 | 10,383 | 13,719 | 16,998 | 20,341 | 24,055 | 27,256 | 30,404 | 33,882 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G3 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 |
| SL3 | 4000K/5000K Lumens | 4,106 | 8,025 | 11,974 | 15,821 | 19,803 | 23,458 | 27,742 | 31,433 | 35,064 | 38,821 |
| | 3000K Lumens | 3,635 | 7,104 | 10,599 | 14,005 | 17,353 | 20,765 | 24,657 | 27,824 | 31,039 | 34,364 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G3 | B2-U0-G3 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 |
| SL4 | 4000K/5000K Lumens | 3,902 | 7,624 | 11,377 | 15,033 | 18,626 | 22,289 | 26,359 | 29,867 | 33,315 | 36,886 |
| | 3000K Lumens | 3,454 | 6,749 | 10,071 | 13,307 | 15,488 | 19,730 | 23,333 | 26,438 | 29,491 | 32,651 |
| | BUG Rating | B1-U0-G2 | B1-U0-G2 | B1-U0-G3 | B1-U0-G3 | B2-U0-G4 | B2-U0-G4 | B2-U0-G4 | B2-U0-G5 | B3-U0-G5 | B3-U0-G5 |
| 5NQ | 4000K/5000K Lumens | 4,236 | 8,277 | 12,351 | 16,319 | 20,219 | 24,196 | 28,614 | 32,422 | 36,165 | 40,042 |
| | 3000K Lumens | 3,750 | 7,327 | 10,933 | 14,446 | 17,898 | 21,418 | 25,329 | 29,700 | 32,014 | 35,445 |
| | BUG Rating | B2-U0-G1 | B3-U0-G1 | B3-U0-G2 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G2 | B5-U0-G3 | B6-U0-G3 |
| 5MQ | 4000K/5000K Lumens | 4,314 | 8,429 | 12,578 | 16,619 | 20,591 | 24,841 | 29,141 | 33,019 | 36,832 | 40,779 |
| | 3000K Lumens | 3,819 | 7,461 | 11,134 | 14,711 | 18,227 | 21,812 | 25,796 | 29,228 | 32,604 | 36,098 |
| | BUG Rating | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 |
| 5WQ | 4000K/5000K Lumens | 4,325 | 8,452 | 12,611 | 16,664 | 20,646 | 24,707 | 29,219 | 33,106 | 36,930 | 40,888 |
| | 3000K Lumens | 3,829 | 7,482 | 11,163 | 14,751 | 18,276 | 21,871 | 25,865 | 29,305 | 32,690 | 36,194 |
| | BUG Rating | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 |
| SLL/SLR | 4000K/5000K Lumens | 3,609 | 7,062 | 10,522 | 13,903 | 17,226 | 20,613 | 24,378 | 27,622 | 30,812 | 34,114 |
| | 3000K Lumens | 3,195 | 6,242 | 9,314 | 12,307 | 15,248 | 18,247 | 21,579 | 24,451 | 27,275 | 30,198 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B1-U0-G3 | B2-U0-G3 | B2-U0-G3 | B2-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 |
| RW | 4000K/5000K Lumens | 4,197 | 9,202 | 12,239 | 16,171 | 20,035 | 23,977 | 29,356 | 32,129 | 35,839 | 39,680 |
| | 3000K Lumens | 3,715 | 7,260 | 10,834 | 14,315 | 17,736 | 21,224 | 25,101 | 28,441 | 31,725 | 35,125 |
| | BUG Rating | B2-U0-G1 | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B4-U0-G2 | B4-U0-G2 | B6-U0-G3 | B5-U0-G3 | B5-U0-G3 |
| AFL | 4000K/5000K Lumens | 4,213 | 8,232 | 12,284 | 16,230 | 20,109 | 24,064 | 28,469 | 32,246 | 35,969 | 39,824 |
| | 3000K Lumens | 3,729 | 7,287 | 10,874 | 14,367 | 17,800 | 21,301 | 25,192 | 29,544 | 31,940 | 35,252 |
| | BUG Rating | B1-U0-G1 | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B2-U0-G2 | B3-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 |

* Nominal data for 70 CRI.

CONTROL OPTIONS

0-10V (DIM)

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

Photocontrol (P, R and PER7)

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

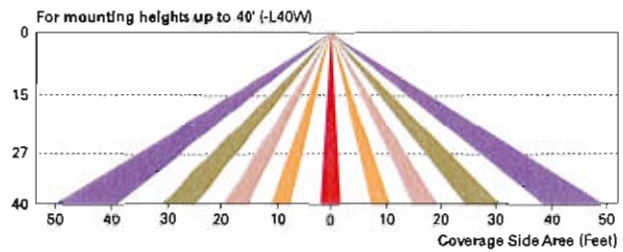
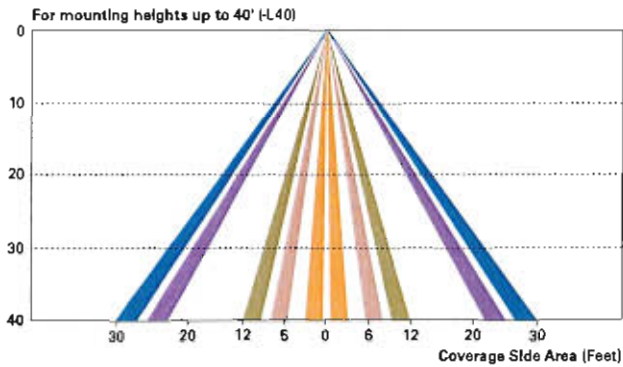
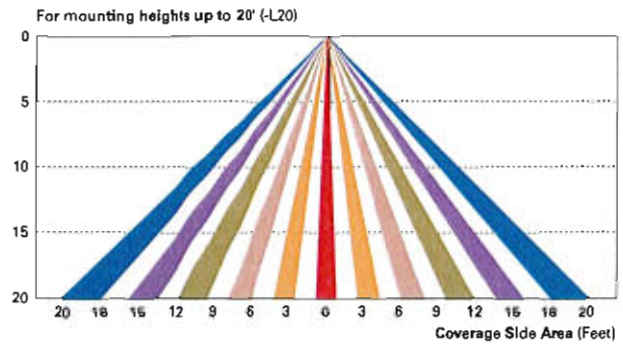
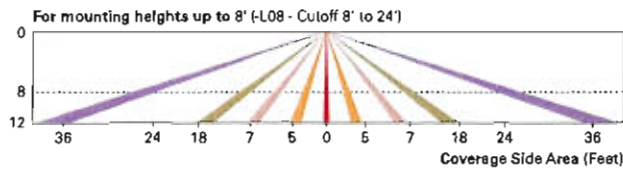
After Hours Dim (AHD)

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

Dimming Occupancy Sensor (MS/DIM-LXX, MS/X-LXX and MS-LXX)

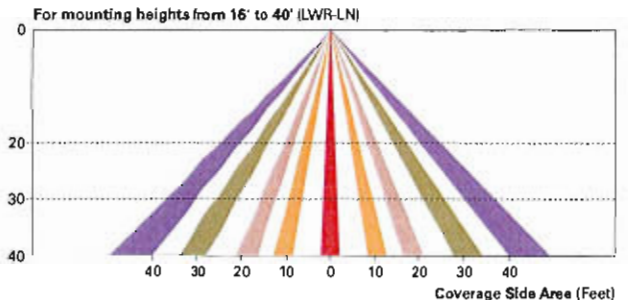
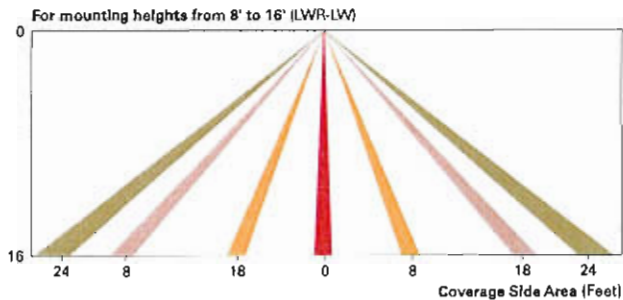
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-40'.



LumaWatt Pro Wireless Control and Monitoring System (LWR-LW and LWR-LN)

The Eaton's LumaWatt Pro powered by Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.



WaveLinX Wireless Outdoor Lighting Control Module (WOLC-7P-10A)

The 7-pin wireless outdoor lighting control module enables WaveLinX to control outdoor area, site and flood lighting. WaveLinX controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.

LumenSafe Integrated Network Security Camera (LD)

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

ORDERING INFORMATION

Sample Number: GLEON-AF-04-LED-E1-T3-GM-0M

| Product Family ^{1,2} | Light Engine | Number of Light Squares ³ | Lamp Type | Voltage | Distribution | Color | Mounting |
|-------------------------------|---------------------|--|---------------------------------------|---|--|---|--|
| GLEON=Galleon | AF=1A Drive Current | 01=1 02=2 03=3 04=4 05=5 ⁴ 06=6 07=7 ⁵ 08=8 ⁵ 09=9 ⁶ 10=10 ⁴ | LED=Solid State Light Emitting Diodes | E1=120-277V 347=347V ⁷ 480=480V ^{7,8} | T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=80° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline | AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White | [Blank]=Arm for Round or Square Pole EA=Extended Arm ⁹ MA=Mast Arm Adapter ¹⁰ WM=Wall Mount QM=Quick Mount Arm (Standard Length) ¹¹ QMEA=Quick Mount Arm (Extended Length) ¹² |

| Options (Add as Suffix) | Accessories (Order Separately) |
|--|---|
| <p>7030=70 CRI 3000K¹³ 8030=80 CRI 3000K¹⁴ 7050=70 CRI 5000K¹³ 7060=70 CRI 6000K¹³ 600=Drive Current Factory Set to Nominal 600mA¹⁵ 800=Drive Current Factory Set to Nominal 800mA¹⁵ 1200=Drive Current Factory Set to Nominal 1200mA^{15,16} F=Single Fuse (120, 277 or 347V. Must Specify Voltage) FF=Double Fuse (208, 240 or 480V. Must Specify Voltage) 2L=Two Circuits^{17,18} DIM=External 0-10V Dimming Leads^{19,20} P=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage)²¹ PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle²¹ R=NEMA Twistlock Photocontrol Receptacle²¹ AHD145=After Hours Dim, 5 Hours²² AHD245=After Hours Dim, 6 Hours²² AHD255=After Hours Dim, 7 Hours²² AHD355=After Hours Dim, 8 Hours²² HA=50°C High Ambient²³ MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height^{24,25} MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height^{24,25} MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height^{24,25} MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range)^{24,25} MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height^{24,25,26} MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height^{24,25,26} MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height^{24,25,26} MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range)^{24,25,26} MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height^{24,25} MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height^{24,25} MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height^{24,25} MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range)^{24,25} LWR-LW=LumaWatt Pro Wireless Sensor, Wide Lens for 8' - 16' Mounting Height^{30,31} LWR-LN=LumaWatt Pro Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height^{30,31} WOLC-7P-10A=WaveLinX Wireless Outdoor Lighting Control Module³² L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right MT=Factory Installed Mesh Top TH=Tool-less Door Hardware LCF=Light Square Trim Plate Painted to Match Housing³³ HSS=Factory Installed House Side Shield³⁴ CE=CE Marking³⁵</p> | <p>QA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V QA/RA1027=NEMA Photocontrol - 480V QA/RA1201=NEMA Photocontrol - 347V QA/RA1013=Photocontrol Shorting Cap QA/RA1014=120V Photocontrol MA1252=10kV Surge Module Replacement MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1036-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100=Wireless Configuration Tool for Occupancy Sensor³⁶ GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares GLEON-QM=Quick Mount Arm Kit¹¹ GLEON-QMEA=Quick Mount Extended Arm Kit¹² LS/HSS=Field Installed House Side Shield^{34,35} WOLC-7P-10A=WaveLinX Outdoor Control Module (7-pin)^{35,36}</p> |

NOTES:

1 Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information. 2 DesignLights Consortium³ Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 3 Standard 4000K CCT and minimum 70 CRI. 4 Not compatible with MS/4-LXX or MS/1-LXX sensors. 5 Not compatible with extended quick mount arm (QMEA). 6 Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA). 7 Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A. 8 Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems. Impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems). 9 May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table. 10 Factory installed. 11 Maximum 8 light squares. 12 Maximum 6 light squares. 13 Extended lead times apply. Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website. 14 Extended lead times apply. Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website. 15 1 Amp standard. Use dedicated IES files for 600mA, 800mA and 1200mA when performing layouts. These files are published on the Galleon luminaire product page on the website. 16 Not available with HA option. 17 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AF-02 through AF-04 requires a larger housing, normally used for AF-05 or AF-06. Extended arm option may be required when mounting two or more fixtures per pole at 80° or 120°. Refer to arm mounting requirement table. 18 Not available with LumaWatt Pro wireless sensors. 19 Cannot be used with other control options. 20 Low voltage control lead brought out 18" outside fixture. 21 Not available if any "MS" sensor is selected. Motion sensor has an integral photocell. 22 Requires the use of P photocontrol or the PER7 or R photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information. 23 50°C lumen maintenance data applies to 600mA, 800mA and 1A drive currents. 24 The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information. 25 Approximately 22" detection diameter at 8' mounting height. 26 Approximately 40" detection diameter at 20' mounting height. 27 Approximately 60" detection diameter at 40' mounting height. 28 Approximately 100" detection diameter at 40' mounting height. 29 Replace X with number of Light Squares operating in low output mode. 30 LumaWatt Pro wireless sensors are factory installed only requiring network components LWP-EM-1, LWP-GW-1 and LWP-PoE in appropriate quantities. See www.eaton.com/lighting for LumaWatt Pro application information. 31 Not available with house side shield (HSS). 32 Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected. 33 CE is not available with the LWR, MS, MS/X, MS/DIM, P, R or PER7 options. Available in 120-277V only. 34 One required for each Light Square. 35 Requires 7-pin NEMA twistlock photocontrol receptacle.

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

| Product Family | Camera Type | Data Backhaul |
|-------------------------------------|---------------|---|
| L=LumenSafe Technology [*] | D=Dome Camera | C=Cellular, Customer Installed SIM Card A=Cellular, Factory Installed AT&T SIM Card V=Cellular, Factory Installed Verizon SIM Card S=Cellular, Factory Installed Sprint SIM Card |
| | | R=Cellular, Factory Installed Rogers SIM Card W=Wi-Fi Networking w/ Omni-Directional Antenna E=Ethernet Networking |

*Consult LumenSafe system pages for additional details and compatibility. Not available with 9-10 light square housing. Not available with 347V, 480V or high ambient options.

DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

| | | | |
|-----------|-------------------------|-------------|----|
| Catalog # | GLEON-AF-01-LED-T4W-800 | Type | F2 |
| Project | | Date | |
| Comments | | Prepared by | |

SPECIFICATION FEATURES

Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing end die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested and rated. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics

Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 3000K, 5000K and 6000K CCT.

Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 600mA, 800mA and 1200mA drive currents (nominal).

Mounting

STANDARD ARM MOUNT:

Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during mounting. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the

arm mounting requirement table.

Round pole adapter included. For wall mounting, specify wall mount bracket option. QUICK MOUNT ARM: Adapter is bolted directly to the pole. Quick mount arm slide into place on the adapter and is secured via two screws, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

Finish

Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard housing colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Warranty

Five-year warranty.



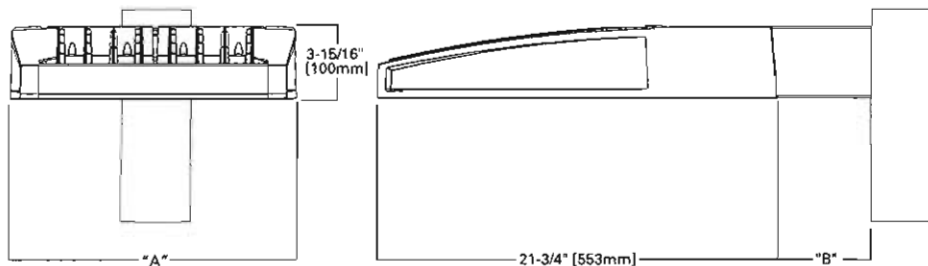
GLEON GALLEON LED

1-10 Light Squares
Solid State LED

AREA/SITE LUMINAIRE



DIMENSIONS

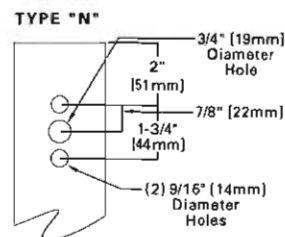


DIMENSION DATA

| Number of Light Squares | "A" Width | "B" Standard Arm Length | "B" Optional Arm Length ¹ | Weight with Arm (lbs.) | EPA with Arm ² (Sq. Ft.) |
|-------------------------|-----------------|-------------------------|--------------------------------------|------------------------|-------------------------------------|
| 1-4 | 15-1/2" (394mm) | 7" (178mm) | 10" (254mm) | 33 (15.0 kgs.) | 0.96 |
| 5-6 | 21-5/8" (549mm) | 7" (178mm) | 10" (254mm) | 44 (20.0 kgs.) | 1.00 |
| 7-8 | 27-5/8" (702mm) | 7" (178mm) | 13" (330mm) | 54 (24.5 kgs.) | 1.07 |
| 9-10 | 33-3/4" (857mm) | 7" (178mm) | 16" (406mm) | 63 (28.6 kgs.) | 1.12 |

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.

DRILLING PATTERN



CERTIFICATION DATA

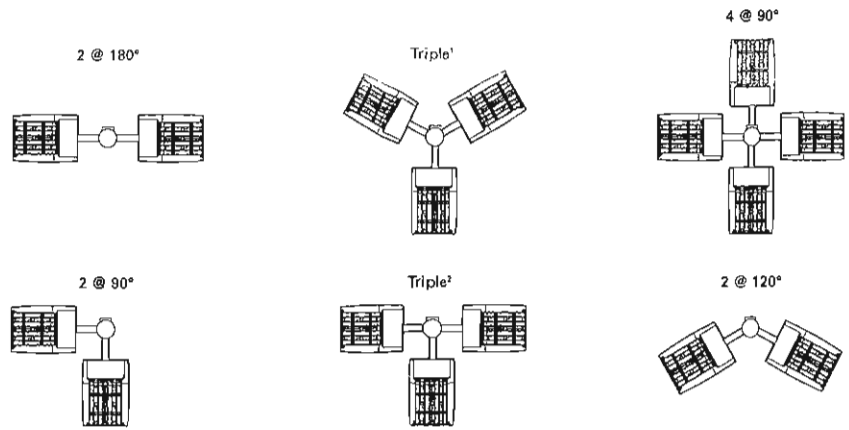
UL/cUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
IP66 Rated
DesignLights Consortium® Qualified*

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V & 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)

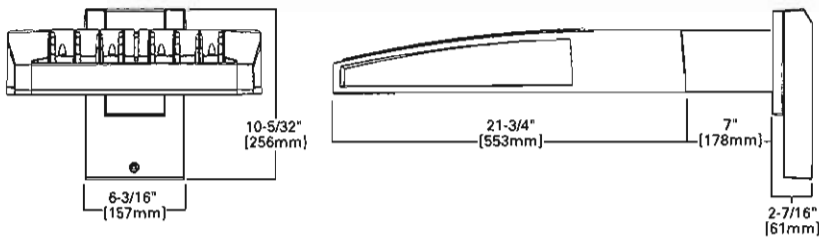
ARM MOUNTING REQUIREMENTS

| Configuration | 90° Apart | 120° Apart |
|---------------|-----------------------------|-----------------------------|
| GLEON-AF-01 | 7" Arm (Standard) | 7" Arm (Standard) |
| GLEON-AF-02 | 7" Arm (Standard) | 7" Arm (Standard) |
| GLEON-AF-03 | 7" Arm (Standard) | 7" Arm (Standard) |
| GLEON-AF-04 | 7" Arm (Standard) | 7" Arm (Standard) |
| GLEON-AF-05 | 10" Extended Arm (Required) | 7" Arm (Standard) |
| GLEON-AF-06 | 10" Extended Arm (Required) | 7" Arm (Standard) |
| GLEON-AF-07 | 13" Extended Arm (Required) | 13" Extended Arm (Required) |
| GLEON-AF-08 | 13" Extended Arm (Required) | 13" Extended Arm (Required) |
| GLEON-AF-09 | 16" Extended Arm (Required) | 16" Extended Arm (Required) |
| GLEON-AF-10 | 16" Extended Arm (Required) | 16" Extended Arm (Required) |

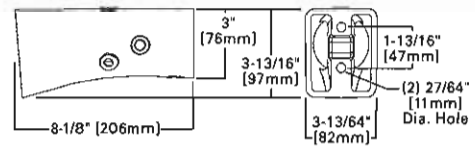


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°

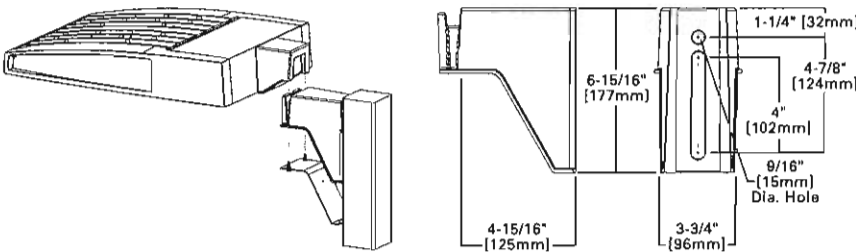
STANDARD WALL MOUNT



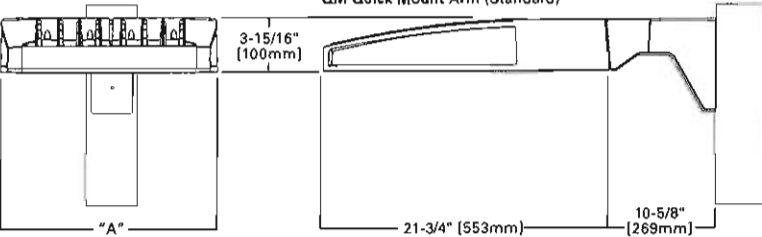
MAST ARM MOUNT



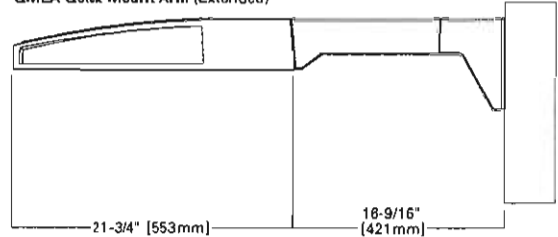
QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)



QM Quick Mount Arm (Standard)



QMEA Quick Mount Arm (Extended)

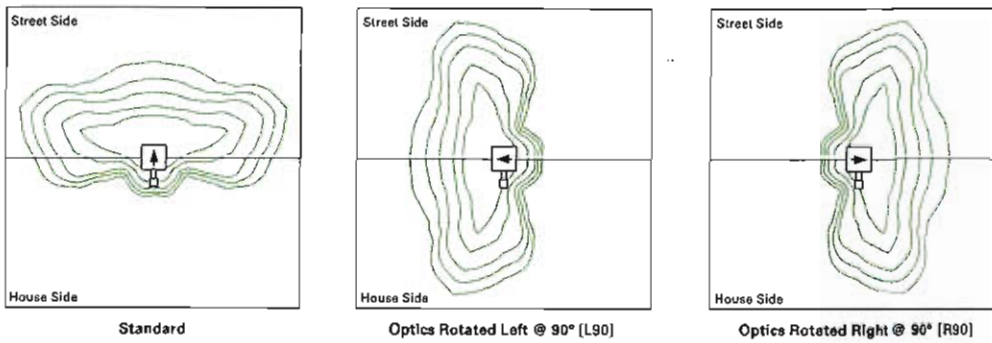


QUICK MOUNT ARM DATA

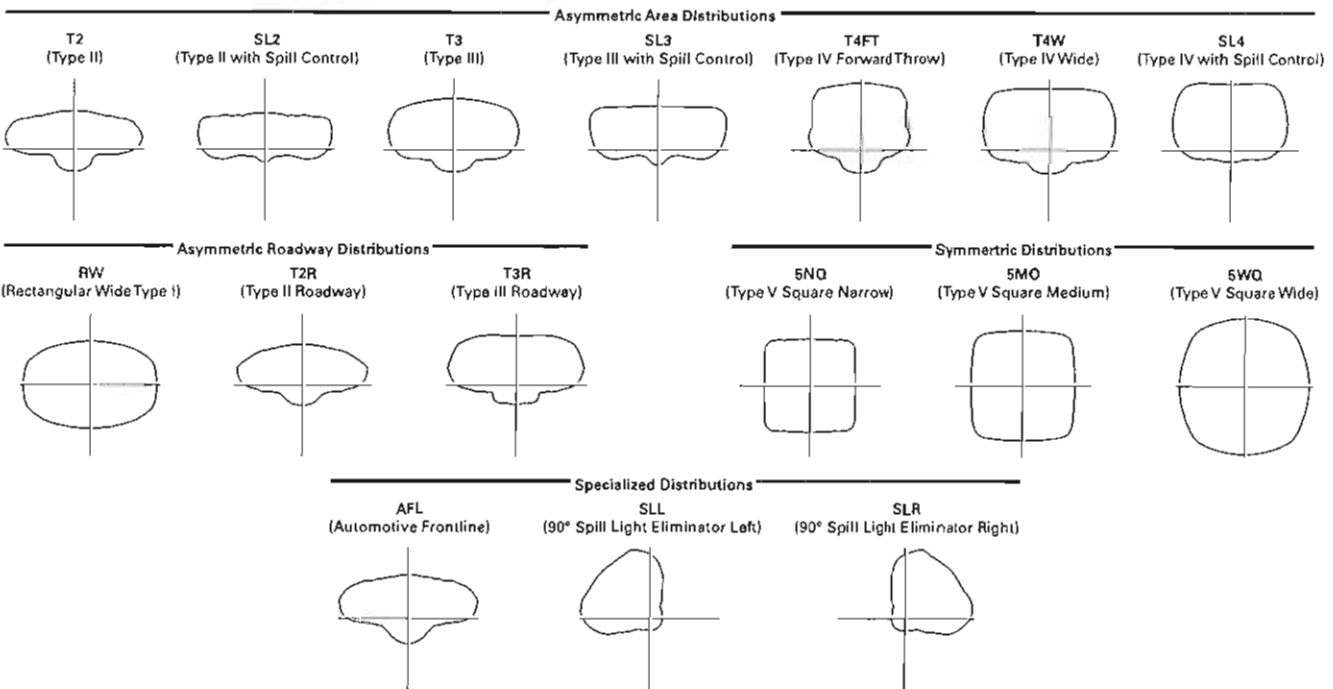
| Number of Light Squares ^{1,2} | "A" Width | Weight with QM Arm (lbs.) | Weight with QMEA Arm (lbs.) | EPA (Sq. Ft.) |
|--|-----------------|---------------------------|-----------------------------|---------------|
| 1-4 | 15-1/2" (384mm) | 35 (15.91 kgs.) | 38 (17.27 kgs.) | 1.11 |
| 5-6 ³ | 21-5/8" (549mm) | 46 (20.81 kgs.) | 49 (22.27 kgs.) | |
| 7-8 | 27-5/8" (702mm) | 56 (25.45 kgs.) | 59 (26.82 kgs.) | |

NOTES: 1 QM option available with 1-8 light square configurations. 2 QMEA option available with 1-6 light square configurations. 3 QMEA arm to be used when mounting two fixtures at 90° on a single pole.

OPTIC ORIENTATION



OPTICAL DISTRIBUTIONS

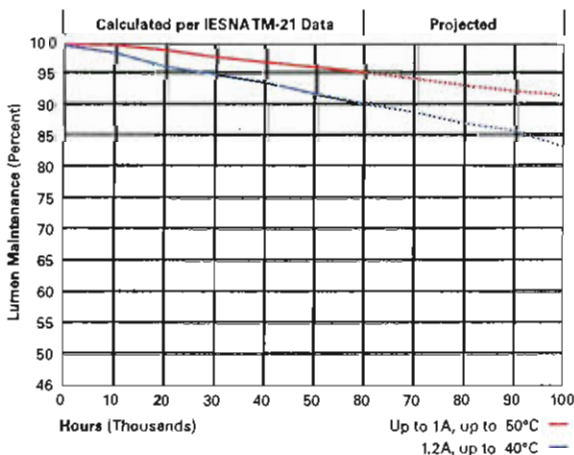


LUMEN MAINTENANCE

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

LUMEN MULTIPLIER

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



NOMINAL POWER LUMENS (1.2A)

| Number of Light Squeres | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|--------------------------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Nominal Power (Watts) | | 67 | 129 | 191 | 258 | 320 | 382 | 448 | 511 | 575 | 640 |
| Input Current @ 120V (A) | | 0.58 | 1.16 | 1.78 | 2.31 | 2.94 | 3.56 | 4.09 | 4.71 | 5.34 | 5.87 |
| Input Current @ 208V (A) | | 0.33 | 0.63 | 0.93 | 1.27 | 1.57 | 1.87 | 2.22 | 2.52 | 2.8 | 3.14 |
| Input Current @ 240V (A) | | 0.29 | 0.55 | 0.80 | 1.10 | 1.35 | 1.61 | 1.93 | 2.18 | 2.41 | 2.71 |
| Input Current @ 277V (A) | | 0.25 | 0.48 | 0.70 | 0.96 | 1.18 | 1.39 | 1.69 | 1.90 | 2.09 | 2.38 |
| Input Current @ 347V (A) | | 0.20 | 0.38 | 0.57 | 0.78 | 0.96 | 1.15 | 1.36 | 1.54 | 1.72 | 1.92 |
| Input Current @ 480V (A) | | 0.15 | 0.30 | 0.43 | 0.60 | 0.73 | 0.85 | 1.03 | 1.16 | 1.28 | 1.45 |
| Optics | | | | | | | | | | | |
| T2 | 4000K/5000K Lumens | 6,709 | 13,111 | 19,562 | 25,848 | 32,026 | 38,325 | 45,324 | 51,355 | 57,286 | 63,424 |
| | 3000K Lumens | 5,939 | 11,606 | 17,316 | 22,881 | 28,348 | 33,925 | 40,121 | 45,459 | 50,710 | 56,143 |
| | BUG Rating | B1-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| T2R | 4000K/5000K Lumens | 7,122 | 13,919 | 20,769 | 27,442 | 34,000 | 40,687 | 48,117 | 54,519 | 60,816 | 67,333 |
| | 3000K Lumens | 5,939 | 11,606 | 17,316 | 22,891 | 28,349 | 33,925 | 40,121 | 45,459 | 50,710 | 56,143 |
| | BUG Rating | B1-U0-G1 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| T3 | 4000K/5000K Lumens | 6,838 | 13,363 | 19,939 | 26,346 | 32,642 | 39,062 | 46,196 | 52,343 | 59,389 | 64,646 |
| | 3000K Lumens | 8,053 | 11,829 | 17,650 | 23,321 | 28,996 | 34,678 | 40,993 | 46,334 | 51,685 | 57,225 |
| | BUG Rating | B1-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B4-U0-G5 | B4-U0-G6 | B4-U0-G5 | B4-U0-G5 |
| T3R | 4000K/5000K Lumens | 6,990 | 13,660 | 20,382 | 26,931 | 33,368 | 39,930 | 47,223 | 53,606 | 59,686 | 68,081 |
| | 3000K Lumens | 6,188 | 12,092 | 18,042 | 23,839 | 29,537 | 35,346 | 41,802 | 47,364 | 52,834 | 58,495 |
| | BUG Rating | B1-U0-G2 | B2-U0-G3 | B2-U0-G3 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| T4FT | 4000K/5000K Lumens | 6,878 | 13,440 | 20,055 | 26,499 | 32,832 | 39,289 | 46,464 | 52,846 | 58,726 | 65,020 |
| | 3000K Lumens | 8,088 | 11,897 | 17,763 | 23,457 | 29,063 | 34,779 | 41,130 | 48,602 | 51,884 | 57,656 |
| | BUG Rating | B1-U0-G2 | B2-U0-G3 | B2-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 | B4-U0-G6 | B4-U0-G6 |
| T4W | 4000K/5000K Lumens | 8,789 | 13,267 | 19,795 | 26,158 | 32,408 | 38,781 | 45,884 | 51,867 | 57,968 | 64,180 |
| | 3000K Lumens | 6,010 | 11,744 | 17,523 | 23,153 | 28,668 | 34,329 | 40,588 | 46,001 | 51,313 | 56,812 |
| | BUG Rating | B1-U0-G2 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| SL2 | 4000K/5000K Lumens | 6,697 | 13,088 | 18,529 | 25,804 | 31,970 | 38,259 | 45,245 | 51,287 | 57,186 | 63,315 |
| | 3000K Lumens | 5,828 | 11,885 | 17,287 | 22,842 | 28,300 | 33,867 | 40,051 | 46,382 | 50,621 | 56,046 |
| | BUG Rating | B1-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B4-U0-G6 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| SL3 | 4000K/5000K Lumens | 8,837 | 13,361 | 19,936 | 26,342 | 32,639 | 39,057 | 46,189 | 52,336 | 58,380 | 64,636 |
| | 3000K Lumens | 6,052 | 11,827 | 17,647 | 23,318 | 28,992 | 34,573 | 40,887 | 46,328 | 51,678 | 57,216 |
| | BUG Rating | B1-U0-G2 | B2-U0-G3 | B2-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| SL4 | 4000K/5000K Lumens | 6,496 | 12,695 | 18,943 | 25,029 | 31,011 | 37,110 | 43,886 | 49,727 | 55,470 | 61,414 |
| | 3000K Lumens | 5,760 | 11,238 | 16,768 | 22,156 | 27,451 | 32,850 | 38,848 | 44,018 | 49,102 | 54,364 |
| | BUG Rating | B1-U0-G2 | B1-U0-G3 | B2-U0-G4 | B2-U0-G4 | B2-U0-G5 | B3-U0-G6 | B3-U0-G5 | B3-U0-G5 | B3-U0-G6 | B3-U0-G5 |
| 5NQ | 4000K/5000K Lumens | 7,052 | 13,781 | 20,564 | 27,171 | 33,664 | 40,285 | 47,841 | 53,981 | 60,216 | 66,669 |
| | 3000K Lumens | 6,242 | 12,199 | 18,203 | 24,052 | 29,789 | 35,660 | 42,172 | 47,784 | 53,302 | 59,015 |
| | BUG Rating | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 |
| 5MQ | 4000K/5000K Lumens | 7,182 | 14,034 | 20,842 | 27,671 | 34,284 | 41,027 | 49,518 | 54,875 | 61,323 | 67,896 |
| | 3000K Lumens | 6,358 | 12,423 | 18,538 | 24,494 | 30,348 | 36,317 | 42,948 | 48,864 | 54,283 | 60,102 |
| | BUG Rating | B3-U0-G1 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 | B5-U0-G5 | B5-U0-G5 | B6-U0-G5 |
| 5WQ | 4000K/5000K Lumens | 7,201 | 14,073 | 20,998 | 27,744 | 34,375 | 41,136 | 48,648 | 55,121 | 61,487 | 68,077 |
| | 3000K Lumens | 6,374 | 12,457 | 18,587 | 24,559 | 30,429 | 36,414 | 43,063 | 48,793 | 54,428 | 60,262 |
| | BUG Rating | B3-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 | B5-U0-G5 | B5-U0-G5 | B5-U0-G5 | B5-U0-G5 |
| SLL/SLR | 4000K/5000K Lumens | 6,009 | 11,741 | 17,519 | 23,148 | 28,681 | 34,321 | 40,589 | 45,990 | 51,301 | 56,798 |
| | 3000K Lumens | 5,318 | 10,393 | 15,508 | 20,491 | 25,388 | 30,381 | 35,929 | 40,710 | 45,412 | 50,278 |
| | BUG Rating | B1-U0-G2 | B2-U0-G3 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 |
| RW | 4000K/5000K Lumens | 6,988 | 13,657 | 20,378 | 26,925 | 33,360 | 39,821 | 47,211 | 53,494 | 59,672 | 66,066 |
| | 3000K Lumens | 8,187 | 12,089 | 18,038 | 23,834 | 29,530 | 35,338 | 41,781 | 47,353 | 52,822 | 58,482 |
| | BUG Rating | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 |
| AFL | 4000K/5000K Lumens | 7,014 | 13,706 | 20,452 | 27,023 | 33,481 | 40,066 | 47,383 | 53,688 | 59,888 | 66,306 |
| | 3000K Lumens | 6,209 | 12,133 | 18,104 | 23,921 | 29,637 | 35,466 | 41,943 | 47,525 | 53,013 | 58,694 |
| | BUG Rating | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G4 | B4-U0-G4 | B4-U0-G4 |

* Nominal data for 70 CRI.

NOMINAL POWER LUMENS (1A)

| Number of Light Squares | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|--------------------------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Nominal Power (Watts) | | 59 | 113 | 166 | 225 | 279 | 333 | 391 | 445 | 501 | 558 |
| Input Current @ 120V (A) | | 0.51 | 1.02 | 1.53 | 2.03 | 2.55 | 3.06 | 3.56 | 4.08 | 4.6 | 5.07 |
| Input Current @ 206V (A) | | 0.29 | 0.56 | 0.82 | 1.11 | 1.37 | 1.64 | 1.93 | 2.19 | 2.46 | 2.75 |
| Input Current @ 240V (A) | | 0.26 | 0.48 | 0.71 | 0.96 | 1.19 | 1.41 | 1.67 | 1.89 | 2.12 | 2.39 |
| Input Current @ 277V (A) | | 0.23 | 0.42 | 0.61 | 0.83 | 1.03 | 1.23 | 1.45 | 1.65 | 1.84 | 2.09 |
| Input Current @ 347V (A) | | 0.17 | 0.32 | 0.50 | 0.64 | 0.82 | 1.00 | 1.14 | 1.32 | 1.50 | 1.68 |
| Input Current @ 480V (A) | | 0.14 | 0.24 | 0.37 | 0.48 | 0.61 | 0.75 | 0.91 | 0.99 | 1.12 | 1.28 |
| Optics | | | | | | | | | | | |
| T2 | 4000K/5000K Lumens | 6,116 | 11,851 | 17,833 | 23,663 | 29,195 | 34,937 | 41,317 | 48,814 | 52,221 | 57,817 |
| | 3000K Lumens | 5,414 | 10,578 | 15,786 | 20,858 | 25,843 | 30,926 | 38,574 | 41,440 | 46,226 | 51,180 |
| | BUG Rating | B1-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| T2R | 4000K/5000K Lumens | 6,493 | 12,688 | 18,832 | 25,015 | 30,994 | 37,090 | 43,853 | 48,689 | 55,439 | 61,380 |
| | 3000K Lumens | 5,748 | 11,231 | 16,758 | 22,143 | 27,436 | 32,832 | 38,828 | 43,994 | 49,075 | 54,334 |
| | BUG Rating | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| T3 | 4000K/5000K Lumens | 6,234 | 12,181 | 18,176 | 24,017 | 29,756 | 35,609 | 42,111 | 47,715 | 53,225 | 58,930 |
| | 3000K Lumens | 5,518 | 10,783 | 16,088 | 21,250 | 26,340 | 31,521 | 37,277 | 42,237 | 47,115 | 52,165 |
| | BUG Rating | B1-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| T3R | 4000K/5000K Lumens | 6,372 | 12,453 | 18,580 | 24,550 | 30,418 | 36,400 | 43,048 | 48,775 | 54,409 | 60,239 |
| | 3000K Lumens | 5,640 | 11,023 | 16,447 | 21,732 | 26,828 | 32,221 | 38,106 | 43,177 | 48,163 | 53,324 |
| | BUG Rating | B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 |
| T4FT | 4000K/5000K Lumens | 6,270 | 12,252 | 18,282 | 24,158 | 29,929 | 35,816 | 42,356 | 47,992 | 53,534 | 59,271 |
| | 3000K Lumens | 5,550 | 10,845 | 16,183 | 21,383 | 26,483 | 31,709 | 37,494 | 42,483 | 47,388 | 52,467 |
| | BUG Rating | B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| T4W | 4000K/6000K Lumens | 5,188 | 12,094 | 18,045 | 23,844 | 28,543 | 35,352 | 41,809 | 47,372 | 52,843 | 58,506 |
| | 3000K Lumens | 5,479 | 10,705 | 15,973 | 21,107 | 25,151 | 31,294 | 37,009 | 41,934 | 46,777 | 51,790 |
| | BUG Rating | B1-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| SL2 | 4000K/5000K Lumens | 5,105 | 11,931 | 17,803 | 23,522 | 28,144 | 34,877 | 41,245 | 46,734 | 52,130 | 57,717 |
| | 3000K Lumens | 5,404 | 10,581 | 15,759 | 20,822 | 25,798 | 30,873 | 35,510 | 41,368 | 46,145 | 51,091 |
| | BUG Rating | B1-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| SL3 | 4000K/5000K Lumens | 6,233 | 12,180 | 18,174 | 24,013 | 29,753 | 35,504 | 42,105 | 47,708 | 53,218 | 58,821 |
| | 3000K Lumens | 5,517 | 10,782 | 15,088 | 21,256 | 26,337 | 31,517 | 37,272 | 42,231 | 47,109 | 52,157 |
| | BUG Rating | B1-U0-G2 | B2-U0-G3 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| SL4 | 4000K/5000K Lumens | 5,922 | 11,572 | 17,268 | 22,816 | 28,269 | 33,829 | 40,006 | 45,330 | 50,566 | 55,984 |
| | 3000K Lumens | 5,242 | 10,244 | 15,286 | 20,197 | 25,024 | 29,945 | 35,413 | 40,125 | 44,761 | 49,557 |
| | BUG Rating | B1-U0-G2 | B1-U0-G3 | B2-U0-G3 | B2-U0-G4 | B2-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 |
| 5NQ | 4000K/5000K Lumens | 6,429 | 12,563 | 18,746 | 24,758 | 30,688 | 36,723 | 43,429 | 49,208 | 54,891 | 60,775 |
| | 3000K Lumens | 5,591 | 11,121 | 16,594 | 21,925 | 27,155 | 32,507 | 38,443 | 43,559 | 48,590 | 53,798 |
| | BUG Rating | B2-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 |
| 5MQ | 4000K/5000K Lumens | 6,547 | 12,794 | 19,090 | 25,224 | 31,253 | 37,400 | 44,228 | 50,114 | 55,902 | 61,893 |
| | 3000K Lumens | 5,795 | 11,325 | 16,898 | 22,328 | 27,555 | 33,106 | 39,151 | 44,361 | 49,484 | 54,788 |
| | BUG Rating | B3-U0-G1 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 | B5-U0-G5 | B5-U0-G5 |
| 5WQ | 4000K/5000K Lumens | 6,564 | 12,828 | 19,141 | 25,291 | 31,336 | 37,499 | 44,347 | 50,248 | 56,051 | 62,058 |
| | 3000K Lumens | 5,810 | 11,355 | 16,944 | 22,388 | 27,739 | 33,194 | 39,256 | 44,480 | 49,616 | 54,934 |
| | BUG Rating | B3-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G5 | B5-U0-G5 | B5-U0-G5 | B5-U0-G5 |
| SLL/SLR | 4000K/5000K Lumens | 5,478 | 10,703 | 15,970 | 21,102 | 26,145 | 31,286 | 37,001 | 41,924 | 46,765 | 51,777 |
| | 3000K Lumens | 4,849 | 9,474 | 14,137 | 18,679 | 23,144 | 27,594 | 32,753 | 37,111 | 41,396 | 45,833 |
| | BUG Rating | B1-U0-G2 | B1-U0-G3 | B2-U0-G3 | B2-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 |
| RW | 4000K/5000K Lumens | 6,371 | 12,449 | 18,575 | 24,544 | 30,411 | 36,392 | 43,037 | 48,764 | 54,396 | 60,225 |
| | 3000K Lumens | 5,540 | 11,020 | 16,443 | 21,725 | 26,920 | 32,214 | 38,096 | 43,165 | 48,151 | 53,311 |
| | BUG Rating | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 |
| AFL | 4000K/5000K Lumens | 6,394 | 12,494 | 18,644 | 24,634 | 30,521 | 36,524 | 43,194 | 48,942 | 54,583 | 60,444 |
| | 3000K Lumens | 5,660 | 11,060 | 16,504 | 21,808 | 27,017 | 32,331 | 38,235 | 43,323 | 48,325 | 53,506 |
| | BUG Rating | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B3-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B4-U0-G4 | B4-U0-G4 |

* Nominal data for 70 CRI.



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

Specifications and dimensions subject to change without notice.

NOMINAL POWER LUMENS (800MA)

| Number of Light Squares | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|--------------------------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Nominal Power (Watts) | | 44 | 85 | 124 | 171 | 210 | 249 | 295 | 334 | 374 | 419 |
| Input Current @ 120V (A) | | 0.39 | 0.77 | 1.13 | 1.54 | 1.90 | 2.26 | 2.67 | 3.03 | 3.39 | 3.80 |
| Input Current @ 208V (A) | | 0.22 | 0.44 | 0.62 | 0.88 | 1.06 | 1.24 | 1.50 | 1.68 | 1.87 | 2.12 |
| Input Current @ 240V (A) | | 0.19 | 0.38 | 0.54 | 0.76 | 0.92 | 1.08 | 1.30 | 1.46 | 1.62 | 1.84 |
| Input Current @ 277V (A) | | 0.17 | 0.38 | 0.47 | 0.72 | 0.83 | 0.95 | 1.19 | 1.31 | 1.42 | 1.67 |
| Input Current @ 347V (A) | | 0.15 | 0.24 | 0.38 | 0.49 | 0.63 | 0.77 | 0.87 | 1.01 | 1.15 | 1.52 |
| Input Current @ 480V (A) | | 0.11 | 0.18 | 0.29 | 0.37 | 0.48 | 0.59 | 0.66 | 0.77 | 0.88 | 0.96 |
| Optics | | | | | | | | | | | |
| T2 | 4000K/5000K Lumens | 4,941 | 9,656 | 14,408 | 19,038 | 23,588 | 28,227 | 33,382 | 37,823 | 42,191 | 46,713 |
| | 3000K Lumens | 4,374 | 8,547 | 12,754 | 16,852 | 20,880 | 24,987 | 29,550 | 33,481 | 37,347 | 41,350 |
| | BUG Rating | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B4-U0-G5 | B4-U0-G5 |
| T2R | 4000K/5000K Lumens | 5,246 | 10,251 | 15,296 | 20,211 | 25,041 | 29,966 | 35,439 | 40,154 | 44,791 | 49,592 |
| | 3000K Lumens | 4,644 | 9,074 | 13,540 | 17,891 | 22,168 | 26,526 | 31,371 | 35,544 | 39,649 | 43,899 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 |
| T3 | 4000K/5000K Lumens | 5,037 | 9,842 | 14,685 | 19,404 | 24,041 | 28,770 | 34,024 | 38,551 | 43,003 | 47,612 |
| | 3000K Lumens | 4,459 | 8,712 | 12,999 | 17,176 | 21,281 | 25,467 | 30,118 | 34,125 | 38,066 | 42,146 |
| | BUG Rating | B1-U0-G1 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| T3R | 4000K/5000K Lumens | 6,148 | 10,061 | 16,011 | 19,835 | 24,676 | 29,409 | 34,780 | 39,408 | 43,959 | 48,669 |
| | 3000K Lumens | 4,657 | 8,906 | 13,288 | 17,668 | 21,766 | 26,033 | 30,787 | 34,864 | 38,913 | 43,082 |
| | BUG Rating | B1-U0-G2 | B1-U0-G2 | B2-U0-G3 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 |
| T4FT | 4000K/5000K Lumens | 5,066 | 9,899 | 14,770 | 19,516 | 24,181 | 28,936 | 34,221 | 38,774 | 43,252 | 47,888 |
| | 3000K Lumens | 4,484 | 8,763 | 13,074 | 17,276 | 21,405 | 26,614 | 30,292 | 34,323 | 38,287 | 42,390 |
| | BUG Rating | B1-U0-G2 | B1-U0-G2 | B2-U0-G3 | B2-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 |
| T4W | 4000K/6000K Lumens | 5,000 | 8,771 | 14,579 | 19,264 | 23,869 | 28,562 | 33,779 | 38,274 | 42,694 | 47,269 |
| | 3000K Lumens | 4,426 | 8,648 | 12,905 | 17,052 | 21,129 | 26,283 | 29,901 | 33,880 | 37,793 | 41,843 |
| | BUG Rating | B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| SL2 | 4000K/5000K Lumens | 4,933 | 9,639 | 14,383 | 19,005 | 23,547 | 28,178 | 33,324 | 37,758 | 42,118 | 46,632 |
| | 3000K Lumens | 4,367 | 8,532 | 12,732 | 16,823 | 20,844 | 24,943 | 29,498 | 33,423 | 37,283 | 41,279 |
| | BUG Rating | B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B4-U0-G6 | B4-U0-G5 |
| SL3 | 4000K/5000K Lumens | 6,036 | 9,841 | 14,683 | 19,401 | 24,039 | 28,766 | 34,019 | 38,546 | 42,997 | 47,606 |
| | 3000K Lumens | 4,458 | 8,711 | 12,997 | 17,174 | 21,279 | 25,464 | 30,114 | 34,121 | 38,061 | 42,140 |
| | BUG Rating | B1-U0-G2 | B1-U0-G2 | B2-U0-G3 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 |
| SL4 | 4000K/5000K Lumens | 4,794 | 9,350 | 13,951 | 18,434 | 22,840 | 27,332 | 32,323 | 36,624 | 40,854 | 45,232 |
| | 3000K Lumens | 4,235 | 8,277 | 12,349 | 16,318 | 20,218 | 24,194 | 28,612 | 32,420 | 36,164 | 40,039 |
| | BUG Rating | B1-U0-G2 | B1-U0-G3 | B1-U0-G3 | B2-U0-G4 | B2-U0-G4 | B2-U0-G5 | B2-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 |
| 5NQ | 4000K/5000K Lumens | 5,194 | 10,150 | 15,145 | 20,011 | 24,794 | 29,670 | 35,088 | 39,757 | 44,349 | 49,102 |
| | 3000K Lumens | 4,598 | 8,985 | 13,406 | 17,714 | 21,948 | 26,264 | 31,060 | 35,193 | 39,258 | 43,465 |
| | BUG Rating | B2-U0-G1 | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G3 | B5-U0-G3 |
| 5MQ | 4000K/5000K Lumens | 5,290 | 10,337 | 15,424 | 20,380 | 25,250 | 30,217 | 35,734 | 40,499 | 45,165 | 50,006 |
| | 3000K Lumens | 4,683 | 9,150 | 13,653 | 18,040 | 22,351 | 26,748 | 31,632 | 35,941 | 39,990 | 44,265 |
| | BUG Rating | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 |
| 5WQ | 4000K/5000K Lumens | 5,304 | 10,365 | 15,465 | 20,434 | 25,318 | 30,297 | 35,830 | 40,597 | 45,296 | 50,139 |
| | 3000K Lumens | 4,695 | 9,175 | 13,690 | 18,098 | 22,411 | 26,819 | 31,717 | 35,936 | 40,087 | 44,383 |
| | BUG Rating | B3-U0-G1 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 | B5-U0-G5 | B5-U0-G5 |
| SLL/SLR | 4000K/5000K Lumens | 4,426 | 8,648 | 12,903 | 17,049 | 21,124 | 25,278 | 29,894 | 33,872 | 37,794 | 41,932 |
| | 3000K Lumens | 3,918 | 7,655 | 11,422 | 15,092 | 18,699 | 22,376 | 26,462 | 29,963 | 33,446 | 37,030 |
| | BUG Rating | B1-U0-G2 | B1-U0-G2 | B2-U0-G3 | B2-U0-G3 | B2-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 |
| RW | 4000K/5000K Lumens | 5,147 | 10,058 | 15,009 | 19,830 | 24,570 | 29,402 | 34,771 | 39,399 | 43,949 | 49,658 |
| | 3000K Lumens | 4,556 | 8,903 | 13,285 | 17,554 | 21,749 | 26,027 | 30,779 | 34,876 | 38,904 | 43,072 |
| | BUG Rating | B2-U0-G1 | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 |
| AFL | 4000K/5000K Lumens | 5,165 | 10,095 | 15,063 | 19,903 | 24,659 | 29,509 | 34,899 | 39,542 | 44,108 | 48,635 |
| | 3000K Lumens | 4,573 | 8,936 | 13,334 | 17,618 | 21,828 | 26,121 | 30,892 | 35,003 | 39,044 | 43,229 |
| | BUG Rating | B1-U0-G1 | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B3-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 |

* Nominal data for 70 CRI.

NOMINAL POWER LUMENS (600MA)

| Number of Light Squares | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|--------------------------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Nominal Power (Watts) | | 34 | 66 | 96 | 129 | 162 | 193 | 226 | 257 | 290 | 323 |
| Input Current @ 120V (A) | | 0.30 | 0.58 | 0.86 | 1.16 | 1.44 | 1.73 | 2.03 | 2.33 | 2.59 | 2.89 |
| Input Current @ 208V (A) | | 0.17 | 0.34 | 0.49 | 0.65 | 0.84 | 0.89 | 1.14 | 1.30 | 1.46 | 1.63 |
| Input Current @ 240V (A) | | 0.15 | 0.30 | 0.43 | 0.56 | 0.74 | 0.87 | 1.00 | 1.13 | 1.30 | 1.43 |
| Input Current @ 277V (A) | | 0.14 | 0.28 | 0.41 | 0.52 | 0.69 | 0.81 | 0.83 | 1.04 | 1.22 | 1.33 |
| Input Current @ 347V (A) | | 0.11 | 0.19 | 0.30 | 0.39 | 0.49 | 0.60 | 0.69 | 0.77 | 0.90 | 0.99 |
| Input Current @ 480V (A) | | 0.08 | 0.15 | 0.24 | 0.30 | 0.38 | 0.48 | 0.53 | 0.59 | 0.71 | 0.77 |
| Optics | | | | | | | | | | | |
| T2 | 4000K/5000K Lumens | 4,029 | 7,874 | 11,749 | 16,526 | 19,236 | 23,019 | 27,222 | 30,844 | 34,406 | 38,093 |
| | 3000K Lumens | 3,566 | 6,970 | 10,400 | 13,743 | 17,027 | 20,376 | 24,097 | 27,303 | 30,456 | 33,720 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 |
| T2R | 4000K/5000K Lumens | 4,278 | 8,360 | 12,474 | 16,482 | 20,421 | 24,437 | 28,900 | 32,745 | 36,527 | 40,441 |
| | 3000K Lumens | 3,787 | 7,400 | 11,042 | 14,590 | 18,077 | 21,632 | 25,582 | 28,986 | 32,334 | 35,796 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 |
| T3 | 4000K/5000K Lumens | 4,107 | 8,026 | 11,976 | 16,824 | 19,505 | 23,461 | 27,746 | 31,438 | 35,068 | 38,627 |
| | 3000K Lumens | 3,636 | 7,105 | 10,601 | 14,007 | 17,354 | 20,768 | 24,561 | 27,829 | 31,042 | 34,370 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 |
| T3R | 4000K/5000K Lumens | 4,198 | 8,205 | 12,242 | 16,175 | 20,041 | 23,982 | 28,363 | 32,137 | 35,848 | 39,689 |
| | 3000K Lumens | 3,718 | 7,263 | 10,837 | 14,318 | 17,740 | 21,229 | 25,107 | 28,448 | 31,733 | 36,133 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 |
| T4FT | 4000K/5000K Lumens | 4,131 | 8,072 | 12,045 | 15,915 | 19,719 | 23,597 | 27,907 | 31,520 | 35,272 | 39,052 |
| | 3000K Lumens | 3,657 | 7,145 | 10,652 | 14,088 | 17,455 | 20,888 | 24,703 | 27,990 | 31,223 | 34,568 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B2-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 |
| T4W | 4000K/5000K Lumens | 4,077 | 7,968 | 11,889 | 15,710 | 19,465 | 23,292 | 27,546 | 31,212 | 34,816 | 38,547 |
| | 3000K Lumens | 3,609 | 7,053 | 10,524 | 13,906 | 17,230 | 20,618 | 24,384 | 27,629 | 30,819 | 34,122 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 |
| SL2 | 4000K/5000K Lumens | 4,022 | 7,881 | 11,729 | 15,496 | 19,202 | 22,979 | 27,175 | 30,791 | 34,347 | 38,028 |
| | 3000K Lumens | 3,550 | 6,959 | 10,383 | 13,719 | 16,998 | 20,341 | 24,055 | 27,256 | 30,404 | 33,662 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G3 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 |
| SL3 | 4000K/5000K Lumens | 4,106 | 8,025 | 11,974 | 15,821 | 18,603 | 23,458 | 27,742 | 31,433 | 35,064 | 38,821 |
| | 3000K Lumens | 3,635 | 7,104 | 10,599 | 14,005 | 17,353 | 20,765 | 24,557 | 27,824 | 31,039 | 34,354 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G3 | B2-U0-G3 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 |
| SL4 | 4000K/5000K Lumens | 3,902 | 7,624 | 11,377 | 15,033 | 18,626 | 22,289 | 26,359 | 29,867 | 33,316 | 36,886 |
| | 3000K Lumens | 3,454 | 5,749 | 10,071 | 13,307 | 16,488 | 19,730 | 23,333 | 26,438 | 29,491 | 32,651 |
| | BUG Rating | B1-U0-G2 | B1-U0-G2 | B1-U0-G3 | B1-U0-G3 | B2-U0-G4 | B2-U0-G4 | B2-U0-G4 | B2-U0-G5 | B3-U0-G5 | B3-U0-G5 |
| 5NQ | 4000K/5000K Lumens | 4,236 | 8,277 | 12,351 | 16,319 | 20,219 | 24,196 | 28,614 | 32,422 | 36,166 | 40,042 |
| | 3000K Lumens | 3,750 | 7,327 | 10,933 | 14,446 | 17,898 | 21,418 | 25,329 | 28,700 | 32,014 | 35,445 |
| | BUG Rating | B2-U0-G1 | B3-U0-G1 | B3-U0-G2 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G2 | B5-U0-G3 | B5-U0-G3 |
| 5MQ | 4000K/5000K Lumens | 4,314 | 8,429 | 12,578 | 16,619 | 20,591 | 24,641 | 29,141 | 33,018 | 36,832 | 40,779 |
| | 3000K Lumens | 3,819 | 7,451 | 11,134 | 14,711 | 18,227 | 21,812 | 25,796 | 29,228 | 32,604 | 36,098 |
| | BUG Rating | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 |
| 5WQ | 4000K/5000K Lumens | 4,325 | 8,452 | 12,611 | 16,664 | 20,646 | 24,707 | 29,219 | 33,106 | 36,930 | 40,888 |
| | 3000K Lumens | 3,828 | 7,482 | 11,183 | 14,751 | 18,276 | 21,871 | 25,885 | 29,305 | 32,590 | 35,194 |
| | BUG Rating | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B6-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 |
| SLL/SLR | 4000K/5000K Lumens | 3,609 | 7,052 | 10,522 | 13,903 | 17,226 | 20,613 | 24,378 | 27,822 | 30,812 | 34,114 |
| | 3000K Lumens | 3,195 | 6,242 | 9,314 | 12,307 | 15,248 | 18,247 | 21,579 | 24,451 | 27,275 | 30,198 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B1-U0-G3 | B2-U0-G3 | B2-U0-G3 | B2-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 |
| RW | 4000K/5000K Lumens | 4,197 | 8,202 | 12,239 | 16,171 | 20,036 | 23,977 | 28,356 | 32,129 | 35,839 | 39,680 |
| | 3000K Lumens | 3,716 | 7,280 | 10,834 | 14,315 | 17,736 | 21,224 | 25,101 | 28,441 | 31,725 | 35,125 |
| | BUG Rating | B2-U0-G1 | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G3 |
| AFL | 4000K/5000K Lumens | 4,213 | 6,232 | 12,284 | 16,230 | 20,109 | 24,064 | 28,459 | 32,246 | 35,969 | 39,824 |
| | 3000K Lumens | 3,729 | 7,287 | 10,874 | 14,367 | 17,800 | 21,301 | 25,192 | 28,544 | 31,840 | 35,252 |
| | BUG Rating | B1-U0-G1 | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B2-U0-G2 | B3-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 |

* Nominal data for 70 CRI.

CONTROL OPTIONS

0-10V (DIM)

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

Photocontrol (P, R and PER7)

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

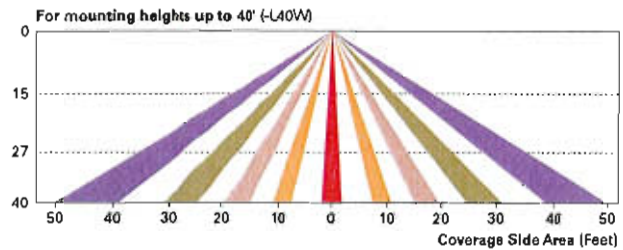
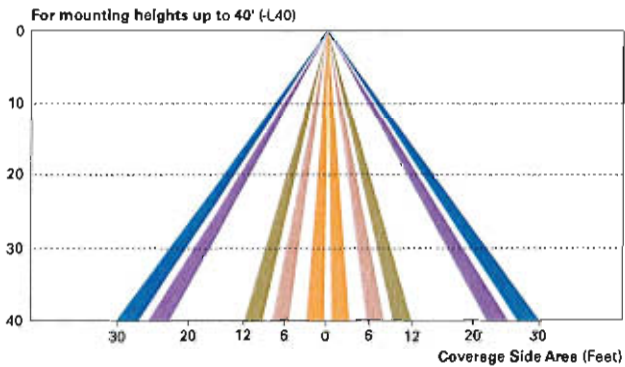
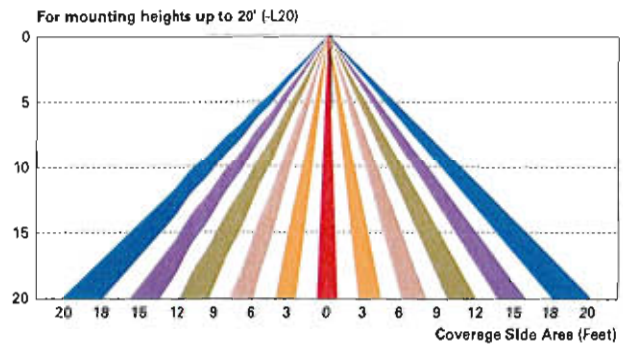
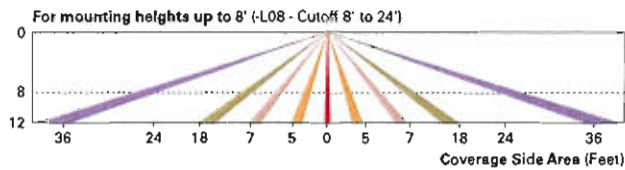
After Hours Dim (AHD)

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

Dimming Occupancy Sensor (MS/DIM-LXX, MS/X-LXX and MS-LXX)

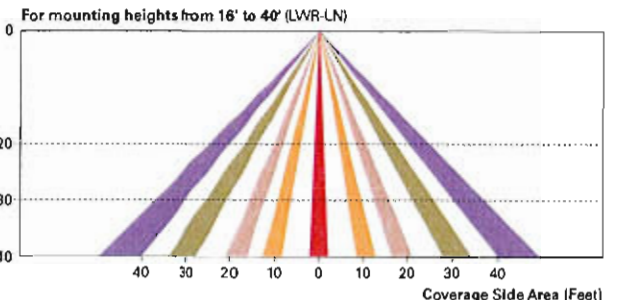
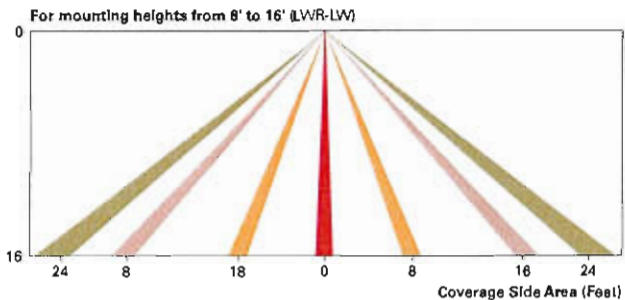
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage. pattern for mounting heights from 8'-40'.



LumaWatt Pro Wireless Control and Monitoring System (LWR-LW and LWR-LN)

The Eaton's LumaWatt Pro powered by Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.



WaveLinX Wireless Outdoor Lighting Control Module (WOLC-7P-10A)

The 7-pin wireless outdoor lighting control module enables WaveLinX to control outdoor area, site and flood lighting. WaveLinX controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.

LumenSafe Integrated Network Security Camera (LD)

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

ORDERING INFORMATION

Sample Number: GLEON-AF-04-LED-E1-T3-GM-QM

| Product Family ^{1,2} | Light Engine | Number of Light Squares ³ | Lamp Type | Voltage | Distribution | Color | Mounting |
|-------------------------------|---------------------|--|---------------------------------------|---|--|---|--|
| GLEON=Galleon | AF=1A Drive Current | 01=1 02=2 03=3 04=4 05=5 ⁴ 06=6 07=7 ⁵ 08=8 ⁶ 09=9 ⁶ 10=10 ⁶ | LED=Solid State Light Emitting Diodes | E1=120-277V 347=347V ⁷ 480=480V ^{7,8} | T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline | AP=Grey B2=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White | [Blank]=Arm for Round or Square Pole EA=Extended Arm ⁹ MA=Mast Arm Adapter ¹⁰ WM=Wall Mount QM=Quick Mount Arm (Standard Length) ¹¹ OMEA=Quick Mount Arm (Extended Length) ¹² |

| Options (Add as Suffix) | Accessories (Order Separately) |
|---|---|
| <p>7030=70 CRI 3000K¹³ 8030=80 CRI 3000K¹⁴ 7050=70 CRI 5000K¹³ 7060=70 CRI 6000K¹³ 600=Drive Current Factory Set to Nominal 600mA¹⁵ 800=Drive Current Factory Set to Nominal 800mA¹⁵ 1200=Drive Current Factory Set to Nominal 1200mA^{15, 16} F=Single Fuse (120, 277 or 347V. Must Specify Voltage) FF=Double Fuse (208, 240 or 480V. Must Specify Voltage) 2L=Two Circuits^{17, 18} DIM=External 0-10V Dimming Leads^{19, 20} P=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage)²¹ PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle²¹ R=NEMA Twistlock Photocontrol Receptacle²¹ AHD145=After Hours Dim, 5 Hours²² AHD245=After Hours Dim, 6 Hours²² AHD255=After Hours Dim, 7 Hours²² AHD365=After Hours Dim, 8 Hours²² HA=50°C High Ambient²³ MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height^{24, 25} MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height^{24, 25} MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height^{24, 27} MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range)^{24, 28} MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height^{24, 29, 30} MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height^{24, 29, 30} MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height^{24, 29, 30} MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range)^{24, 29, 30} MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height^{24, 25} MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height^{24, 25} MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height^{24, 27} MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range)^{24, 28} LWR-LW=LumaWatt Pro Wireless Sensor, Wide Lens for 8' - 16' Mounting Height^{31, 32} LWR-LN=LumaWatt Pro Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height^{31, 32} WOLC-7P-10A=WaveLinX Wireless Outdoor Lighting Control Module³³ L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right MT=Factory Installed Mesh Top TH=Tool-less Door Hardware LCF=Light Square Trim Plate Painted to Match Housing³⁴ HSS=Factory Installed House Side Shield³⁵ CE=CE Marking³⁶</p> | <p>OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V OA/RA1013=Photocontrol Shorting Cap OA/RA1014=120V Photocontrol MA1252=10kV Surge Module Replacement MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100=Wireless Configuration Tool for Occupancy Sensor³⁴ GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares GLEON-QM=Quick Mount Arm Kit¹¹ GLEON-QMEA=Quick Mount Extended Arm Kit¹¹ LS/HSS=Field Installed House Side Shield^{35, 36} WOLC-7P-10A=WaveLinX Outdoor Control Module (7-pin)^{34, 35}</p> |

NOTES:

1 Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information. 2 DesignLights Consortium[®] Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 3 Standard 4000K CCT and minimum 70 CRI. 4 Not compatible with MS4-LXX or MS1-LXX sensors. 5 Not compatible with extended quick mount arm (QMEA). 6 Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA). 7 Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A. 8 Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems). 9 May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table. 10 Factory installed. 11 Maximum 8 light squares. 12 Maximum 6 light squares. 13 Extended lead times apply. Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website. 14 Extended lead times apply. Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website. 15 1 Amp standard. Use dedicated IES files for 600mA, 800mA and 1200mA when performing layouts. These files are published on the Galleon luminaire product page on the website. 16 Not available with HA option. 17 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AF-02 through AF-04 requires a larger housing, normally used for AF-05 or AF-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table. 18 Not available with LumaWatt Pro wireless sensors. 19 Cannot be used with other control options. 20 Low voltage control lead brought out 18" outside fixture. 21 Not available if any "MS" sensor is selected. Motion sensor has an integral photocell. 22 Requires the use of photocontrol or the PER7 or R photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information. 23 50°C lumen maintenance data applies to 600mA, 800mA and 1A drive currents. 24 The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, lumen delay, cutoff and more. Consult your lighting representative at Eaton for more information. 25 Approximately 22' detection diameter at 8' mounting height. 26 Approximately 40' detection diameter at 20' mounting height. 27 Approximately 60' detection diameter at 40' mounting height. 28 Approximately 100' detection diameter at 40' mounting height. 29 Replace X with number of Light Squares operating in low output mode. 30 LumaWatt Pro wireless sensors are factory installed only requiring network components LWP-EM-1, LWP-GW-1 and LWP-PoE8 in appropriate quantities. See www.eaton.com/lighting for LumaWatt Pro application information. 31 Not available with house side shield (HSS). 32 Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected. 33 CE is not available with the LWR, MS, MS/X, MS/DIM, P, R or PER7 options. Available in 120-277V only. 34 One required for each Light Square. 35 Requires 7-pin NEMA twistlock photocontrol receptacle.

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

| Product Family | Camera Type | Data Backhaul |
|-------------------------------------|---------------|---|
| L=LumenSafe Technology [®] | D=Dome Camera | <p>C=Cellular, Customer Installed SIM Card A=Cellular, Factory Installed AT&T SIM Card V=Cellular, Factory Installed Verizon SIM Card S=Cellular, Factory Installed Sprint SIM Card</p> <p>R=Cellular, Factory Installed Rogers SIM Card W=Wi-Fi Networking w/ Omni-Directional Antenna E=Ethernet Networking</p> |

*Consult LumenSafe system pages for additional details and compatibility. Not available with 9-10 light square housing. Not available with 347V, 480V or high ambient options.

DESCRIPTION

The Impact Elite family of wall luminaires is the ideal complement to site design. Incorporating modular LightSquares technology, the Impact Elite luminaire provides outstanding uniformity and energy-conscious illumination. Combined with a rugged construction, the Impact Elite luminaire is the ideal facade and security luminaire for zones surrounding schools, office complexes, apartments and recreational facilities. UL/cUL listed for wet locations.

| | | | |
|-------------|-----------------------|------|-----|
| Catalog # | ISW-AF-450-LED-E1-SL4 | Type | WP1 |
| Project | | Date | |
| Comments | | | |
| Prepared by | | | |

SPECIFICATION FEATURES

Construction

Heavy-wall, die-cast aluminum housing and removable hinged door frame for precise tolerance control and repeatability. Hinged door inset for clean mating with housing surface and secured via two captive fasteners. Optional tamper-resistant Torx™ head fasteners offer vandal resistant access to the electrical chamber.

Optics

Choice of 10 patented, high-efficiency AccuLED Optics™ distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optics technology creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K, 5000K and 5700K CCT.

Electrical

LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation, greater than 0.9 power factor, less than 20% harmonic distortion, and are suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard with 10kV/10kA common – and differential – mode surge protection. LightSquares feature an IP66 enclosure rating and maintain greater than 90% lumen maintenance at 60,000 hours per IESNA TM-21. Emergency egress options for -20°C ambient environments and occupancy sensor available.

Mounting

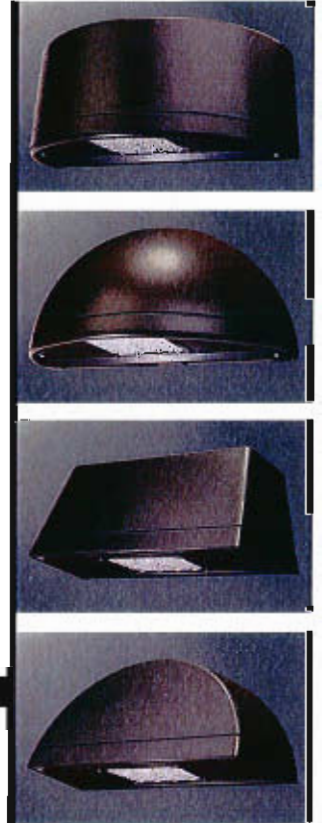
Gasketed and zinc plated rigid steel mounting attachment fits directly to 4" j-box or wall with the Impact Elite "Hook-N-Lock" mechanism for quick installation. Secured with two captive corrosion resistant black oxide coated allen head set screws concealed but accessible from bottom of fixture.

Finish

Cast components finished in a five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

Warranty

Five-year warranty.



ISC/ISS/IST/ISW IMPACT ELITE LED

1 LightSquare
Solid State LED

WALL MOUNT LUMINAIRE

CERTIFICATION DATA

UL/cUL Listed
LM79 / LM80 Compliant
IP66 LightSquare
DesignLights Consortium® Qualified*
ISO 9001

ENERGY DATA

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

SHIPPING DATA

Approximate Net Weight:
18 lbs. (8 kgs.)



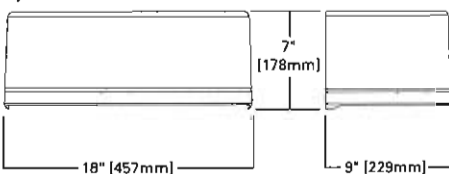
*www.designlights.org



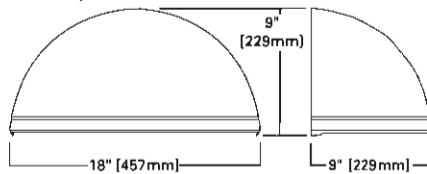
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DIMENSIONS

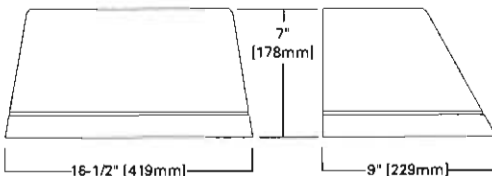
Cylinder



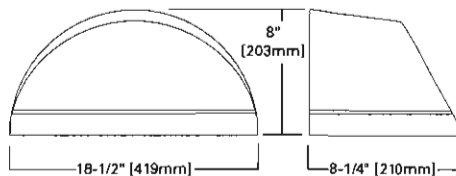
Quarter Sphere



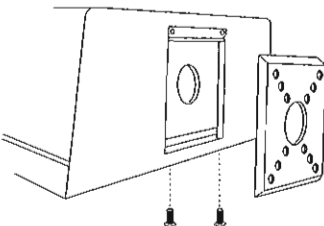
Trapezoid



Wedge



HOOK-N-LOCK MOUNTING



POWER AND LUMENS

| 1 LightSquare (AF) | | Cylinder (ISC) and Quarter Sphere (ISS) | | | | | | Trapezoid (IST) and Wedge (ISW) | | | | | |
|--------------------|--------------|---|----------|----------|----------|----------|----------|---------------------------------|----------|----------|----------|----------|----------|
| Drive Current (mA) | | 350 | 450 | 600 | 800 | 1000 | 1200 | 350 | 450 | 600 | 800 | 1000 | 1200 |
| Power (Watts) | 120-277V | 20.3 | 25.5 | 33.4 | 43.9 | 55.1 | 66.2 | 20.3 | 25.5 | 33.4 | 43.9 | 55.1 | 66.2 |
| Current (A) | 120V | 0.17 | 0.22 | 0.29 | 0.38 | 0.48 | 0.56 | 0.17 | 0.22 | 0.29 | 0.38 | 0.48 | 0.56 |
| | 277V | 0.09 | 0.10 | 0.13 | 0.17 | 0.21 | 0.25 | 0.09 | 0.10 | 0.13 | 0.17 | 0.21 | 0.25 |
| Power (Watts) | 347V or 480V | 23.3 | 28.7 | 36.6 | 49.5 | 60.7 | 70.1 | 23.3 | 28.7 | 36.6 | 49.5 | 60.7 | 70.1 |
| Current (A) | 347V | 0.07 | 0.08 | 0.11 | 0.15 | 0.18 | 0.21 | 0.07 | 0.08 | 0.11 | 0.15 | 0.18 | 0.21 |
| | 480V | 0.05 | 0.06 | 0.08 | 0.11 | 0.13 | 0.16 | 0.05 | 0.06 | 0.08 | 0.11 | 0.13 | 0.16 |
| Optics | | | | | | | | | | | | | |
| T2 | Lumens | 2,336 | 2,934 | 3,827 | 4,791 | 5,663 | 6,444 | 2,498 | 3,136 | 4,091 | 5,122 | 6,054 | 6,889 |
| | BUG Rating | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 |
| T3 | Lumens | 2,385 | 2,994 | 3,906 | 4,888 | 5,779 | 6,577 | 2,504 | 3,144 | 4,101 | 5,133 | 6,068 | 6,905 |
| | BUG Rating | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 |
| T4FT | Lumens | 2,360 | 2,963 | 3,866 | 4,839 | 5,720 | 6,609 | 2,630 | 3,177 | 4,145 | 5,188 | 6,133 | 6,979 |
| | BUG Rating | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 |
| T4W | Lumens | 2,386 | 2,996 | 3,908 | 4,892 | 5,783 | 6,581 | 2,500 | 3,139 | 4,095 | 5,126 | 6,059 | 6,895 |
| | BUG Rating | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 |
| SL2 | Lumens | 2,257 | 2,834 | 3,697 | 4,628 | 5,380 | 6,226 | 2,413 | 3,030 | 3,953 | 4,948 | 5,849 | 6,656 |
| | BUG Rating | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 |
| SL3 | Lumens | 2,220 | 2,787 | 3,636 | 4,552 | 5,380 | 6,122 | 2,365 | 2,970 | 3,874 | 4,849 | 5,732 | 6,523 |
| | BUG Rating | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 |
| SL4 | Lumens | 2,110 | 2,649 | 3,456 | 4,326 | 5,113 | 5,818 | 2,234 | 2,805 | 3,660 | 4,581 | 5,415 | 6,162 |
| | BUG Rating | B0-U0-G1 | B0-U0-G1 | B0-U0-G1 | B0-U0-G1 | B0-U0-G1 | B0-U0-G1 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 |
| SLL/SLR | Lumens | 1,990 | 2,498 | 3,259 | 4,080 | 4,823 | 5,488 | 2,154 | 2,705 | 3,529 | 4,418 | 5,222 | 6,942 |
| | BUG Rating | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 |
| RW | Lumens | 2,380 | 2,988 | 3,898 | 4,880 | 5,768 | 6,564 | 2,465 | 3,095 | 4,037 | 5,054 | 5,974 | 6,798 |
| | BUG Rating | B2-U0-G0 | B2-U0-G0 | B2-U0-G0 | B2-U0-G0 | B2-U0-G0 | B2-U0-G0 | B3-U1-G1 | B3-U1-G1 | B3-U1-G1 | B3-U1-G1 | B3-U1-G1 | B3-U1-G1 |

LUMEN MAINTENANCE

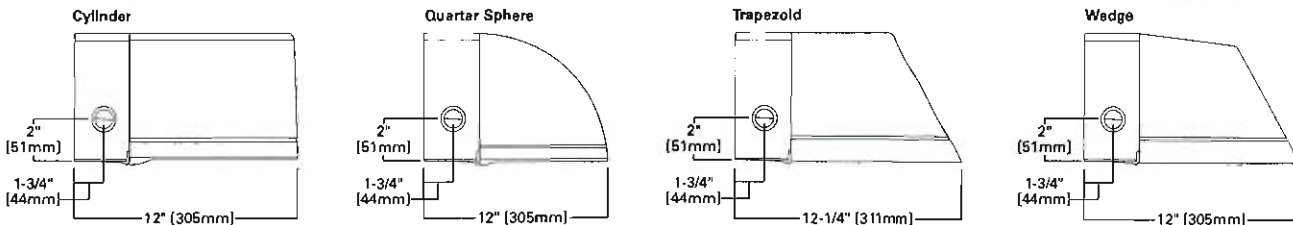
| Current | Ambient Temperature | 25000 Hours* | 50000 Hours* | 60000 Hours* | 100000 Hours* | Theoretical L70 (Hours)* |
|------------|---------------------|--------------|--------------|--------------|---------------|--------------------------|
| Up to 1.2A | Up to 40°C | >85% | >91% | >90% | >83% | 20,4000 |

*Data calculated based on TM-21 calculator.

LUMEN MULTIPLIER

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

THRUWAY BACK BOX



CONTROL OPTIONS

0-10V (DIM)

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

Photocontrol (PC1, PC2 and PER7)

Optional button-type photocontrol provides a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels.

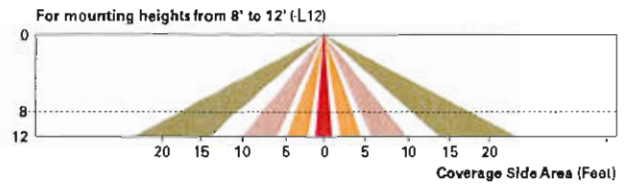
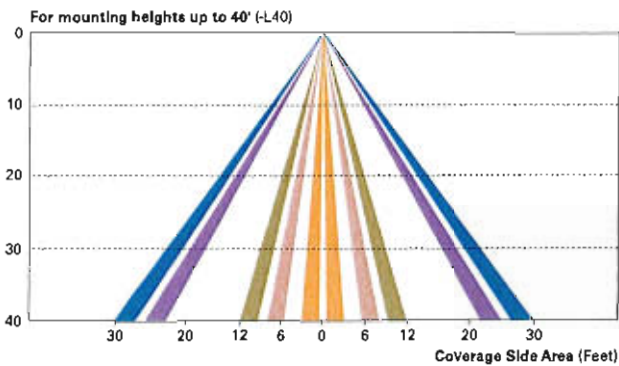
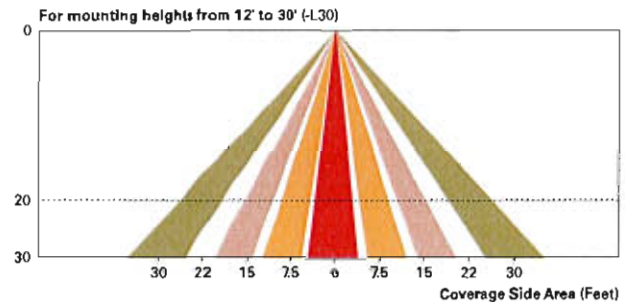
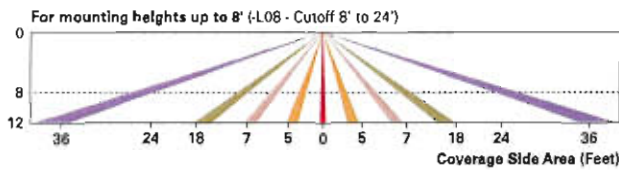
After Hours Dim (AHD)

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

Dimming Occupancy Sensor (MS/DIM-LXX)

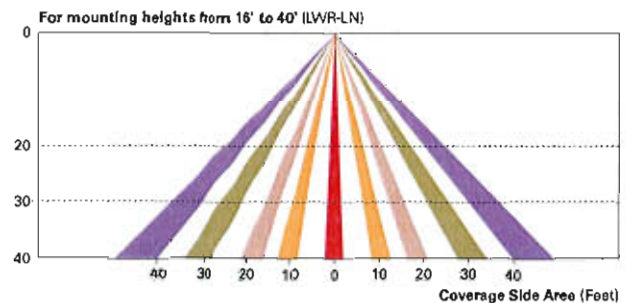
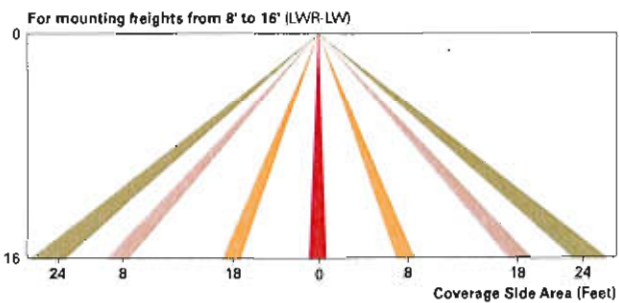
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting -- the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-40'.



LumaWatt Pro Wireless Control and Monitoring System (LWR-LW and LWR-LN)

The Eaton's LumaWatt Pro powered by Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.



ORDERING INFORMATION

Sample Number: ISC-AF-1200-LED-E1-T3-BZ

| Product Family ¹ | Light Engine | Drive Current | Lamp Type | Voltage | Distribution | Color |
|---|--------------------|---|---|---|--|--|
| ISC=Impact Elite LED Small Cylinder ISS=Impact Elite LED Small Quarter Sphere IST=Impact Elite LED Small Trapezoid ISW=Impact Elite LED Small Wedge | AF=(1) LightSquare | 350=Drive Current Factory Set to 350mA 450=Drive Current Factory Set to 450mA 600=Drive Current Factory Set to 600mA 800=Drive Current Factory Set to 800mA 1000=Drive Current Factory Set to 1000mA 1200=Drive Current Factory Set to 1200mA ⁴ | LED=Solid State Light Emitting Diodes | E1=Electronic (120-277V) 347=347V ² 480=480V ^{2,3} | T2=Type II T3=Type III T4FT=Type IV Forward Throw T4W=Type IV Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I | AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White |
| Options (Add as Suffix) | | | | Accessories (Order Separately) ¹⁷ | | |
| 7030=70 CRI / 3000K CCT ⁴ 7050=70 CRI / 6000K CCT ⁴ 7060=70 CRI / 5700K CCT ⁴ 8030=80 CRI / 3000K CCT ⁴ PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle ^{2,5,6} P=Button Type Photocontrol (Available in 120, 208, 240 or 277V. Must Specify Voltage) ^{2,4} HA=50°C High Ambient ⁷ AHD145=After Hours Dim, 5 Hours, 50% ⁸ AHD245=After Hours Dim, 6 Hours, 50% ⁸ AHD255=After Hours Dim, 7 Hours, 50% ⁸ AHD355=After Hours Dim, 8 Hours, 50% ⁸ MS/DIM-LXX=Motion Sensor for Dimming Operation ^{9,10,11} LWR-LW=LumaWatt Pro Wireless Sensor, Wide Lens for 8' - 15' Mounting Height ^{4,11,12} LWR-LN=LumaWatt Pro Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ^{4,11,12} BBB=Battery Pack with Back Box (Specify 120V or 277V) ¹³ CWB=Cold Weather Battery Pack with Back Box (Specify 120V or 277V) ¹⁴ LCF=LightSquare Trim Plate Matchee Housing Finish HSS=Factory Installed House Side Shield ¹⁵ ULG=Uplight Glow ^{5,6} TR=Tamper Resistant Hardware X=Driver Surge Protection (6kV) Only ¹⁸ | | | | MA1253=10kV Circuit Module Replacement MA1254-XX=Thruway Back Box - Impact Elite Trapezoid MA1255-XX=Thruway Back Box - Impact Elite Cylinder MA1256-XX=Thruway Back Box - Impact Elite Quarter Sphere MA1257-XX=Thruway Back Box - Impact Elite Wedge FSIR-100=Wireless Configuration Tool for Occupancy Sensor | | |

NOTES:

1. Standard 4000K CCT and greater than 70 CRI.
2. Not available with ULG option.
3. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
4. Extended lead times apply.
5. Not available with ISS or ISW.
6. Not available with LWR-XX or MS/DIM-LXX.
7. Suitable for 50°C provided no options other than motion sensor are included and driver output set to 1A or less.
8. Requires the use of P photocontrol or the PER7 photocontrol receptacle with photocontrol accessory. Not available with 350mA drive current. See After Hours Dim supplemental guide for additional information.
9. Specify lens in place of XX. Round to next highest option based on mounting height. Available options are 08, 20 and 40W.
10. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
11. Includes integral photocell.
12. LumaWatt Pro wireless sensors are factory installed and requiring network components in appropriate quantities. See www.eaton.com/lighting for LumaWatt Pro application information.
13. LED standard integral battery pack is rated for minimum operating temperature 32°F (0°C). Operates downlight for 90-minutes.
14. LED cold weather integral battery pack is rated for minimum operating temperature -4°F (-20°C). Operates downlight for 90-minutes.
15. Only for use with SL2, SL3 and SL4 distributions. The LightSquare trim plate is painted black when the HSS option is selected.
16. Removes additional surge module.
17. Specify color in place of XX.

DESCRIPTION

The Impact Elite family of wall luminaires is the ideal complement to site design. Incorporating modular LightSquares technology, the Impact Elite luminaire provides outstanding uniformity and energy-conscious illumination. Combined with a rugged construction, the Impact Elite luminaire is the ideal facade and security luminaire for zones surrounding schools, office complexes, apartments and recreational facilities. UL/cUL listed for wet locations.

| | | | |
|-------------|-----------------------|------|--|
| Catalog # | ISW-AF-450-LED-E1-SL3 | Type | |
| Project | | WP2 | |
| Comments | | Date | |
| Prepared by | | | |

SPECIFICATION FEATURES

Construction

Heavy-wall, die-cast aluminum housing and removable hinged door frame for precise tolerance control and repeatability. Hinged door inset for clean mating with housing surface and secured via two captive fasteners. Optional tamper-resistant Torx™ head fasteners offer vandal resistant access to the electrical chamber.

Optics

Choice of 10 patented, high-efficiency AccuLED Optics™ distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optics technology creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K, 5000K and 5700K CCT.

Electrical

LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation, greater than 0.9 power factor, less than 20% harmonic distortion, and are suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard with 10kV/10kA common – and differential – mode surge protection. LightSquares feature an IP66 enclosure rating and maintain greater than 90% lumen maintenance at 60,000 hours per IESNA TM-21. Emergency egress options for -20°C ambient environments and occupancy sensor available.

Mounting

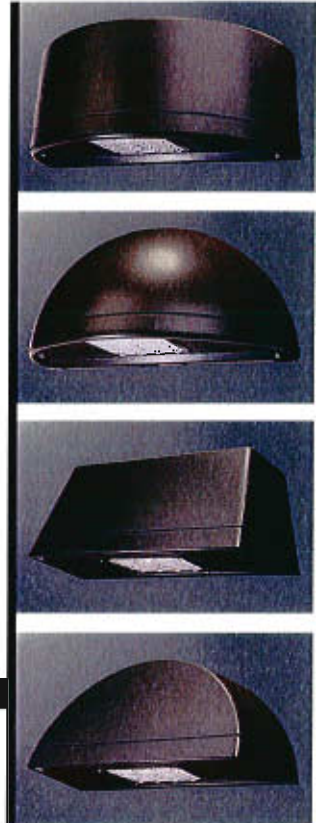
Gasketed and zinc plated rigid steel mounting attachment fits directly to 4" j-box or wall with the Impact Elite "Hook-N-Lock" mechanism for quick installation. Secured with two captive corrosion resistant black oxide coated allen head set screws concealed from bottom of fixture.

Finish

Cast components finished in a five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

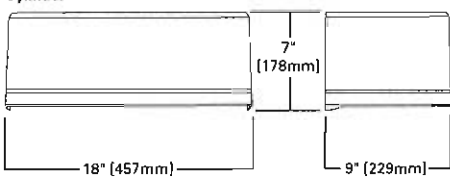
Warranty

Five-year warranty.

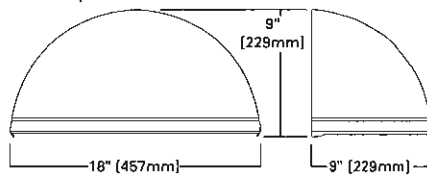


DIMENSIONS

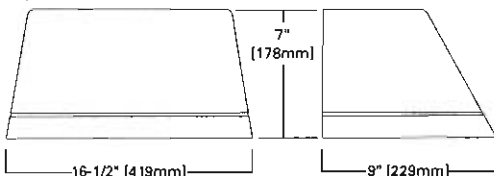
Cylinder



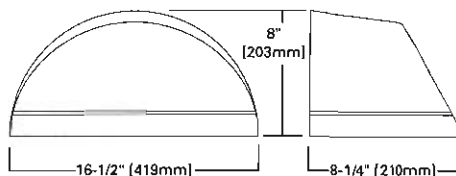
Quarter Sphere



Trapezoid



Wedge



ISC/ISS/IST/ISW IMPACT ELITE LED

1 LightSquare
Solid State LED

WALL MOUNT LUMINAIRE

CERTIFICATION DATA

UL/cUL Listed
LM79 / LM80 Compliant
IP66 LightSquare
DesignLights Consortium® Qualified*
ISO 9001

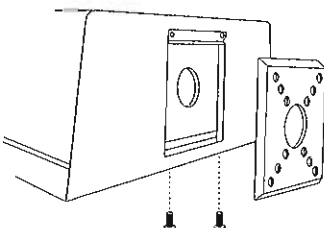
ENERGY DATA

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

SHIPPING DATA

Approximate Net Weight:
18 lbs. (8 kgs.)

HOOK-N-LOCK MOUNTING



POWER AND LUMENS

| 1 LightSquare (AF) | | Cylinder (ISC) and Quarter Sphere (ISS) | | | | | | Trapezoid (IST) and Wedge (ISW) | | | | | |
|--------------------|--------------|---|----------|----------|----------|----------|----------|---------------------------------|----------|----------|----------|----------|----------|
| Drive Current (mA) | | 350 | 450 | 600 | 800 | 1000 | 1200 | 350 | 450 | 600 | 800 | 1000 | 1200 |
| Power (Watts) | 120-277V | 20.3 | 25.5 | 33.4 | 43.9 | 55.1 | 66.2 | 20.3 | 25.5 | 33.4 | 43.9 | 55.1 | 66.2 |
| Current (A) | 120V | 0.17 | 0.22 | 0.29 | 0.38 | 0.48 | 0.56 | 0.17 | 0.22 | 0.29 | 0.38 | 0.48 | 0.56 |
| | 277V | 0.09 | 0.10 | 0.13 | 0.17 | 0.21 | 0.25 | 0.09 | 0.10 | 0.13 | 0.17 | 0.21 | 0.25 |
| Power (Watts) | 347V or 480V | 23.3 | 28.7 | 36.6 | 49.5 | 60.7 | 70.1 | 23.3 | 28.7 | 36.6 | 49.5 | 60.7 | 70.1 |
| Current (A) | 347V | 0.07 | 0.08 | 0.11 | 0.16 | 0.18 | 0.21 | 0.07 | 0.08 | 0.11 | 0.15 | 0.18 | 0.21 |
| | 480V | 0.06 | 0.06 | 0.08 | 0.11 | 0.13 | 0.16 | 0.05 | 0.06 | 0.08 | 0.11 | 0.13 | 0.16 |
| Optics | | | | | | | | | | | | | |
| T2 | Lumens | 2,336 | 2,934 | 3,827 | 4,791 | 6,663 | 6,444 | 2,498 | 3,136 | 4,091 | 5,122 | 6,054 | 6,889 |
| | BUG Rating | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 |
| T3 | Lumens | 2,385 | 2,994 | 3,906 | 4,889 | 5,779 | 6,577 | 2,504 | 3,144 | 4,101 | 5,133 | 6,068 | 6,905 |
| | BUG Rating | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 |
| T4FT | Lumens | 2,360 | 2,963 | 3,866 | 4,839 | 6,720 | 6,609 | 2,630 | 3,177 | 4,145 | 6,188 | 6,133 | 6,979 |
| | BUG Rating | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 |
| T4W | Lumens | 2,386 | 2,996 | 3,908 | 4,892 | 5,783 | 6,581 | 2,500 | 3,139 | 4,095 | 5,126 | 6,059 | 6,895 |
| | BUG Rating | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 |
| SL2 | Lumens | 2,257 | 2,834 | 3,697 | 4,828 | 6,470 | 6,225 | 2,413 | 3,030 | 3,953 | 4,948 | 5,849 | 6,666 |
| | BUG Rating | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 |
| SL3 | Lumens | 2,220 | 2,787 | 3,636 | 4,552 | 5,380 | 6,122 | 2,365 | 2,970 | 3,874 | 4,849 | 5,732 | 6,523 |
| | BUG Rating | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 |
| SL4 | Lumens | 2,110 | 2,649 | 3,456 | 4,326 | 5,113 | 5,818 | 2,234 | 2,805 | 3,660 | 4,581 | 5,415 | 6,162 |
| | BUG Rating | B0-U0-G1 | B0-U0-G1 | B0-U0-G1 | B0-U0-G1 | B0-U0-G1 | B0-U0-G1 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 |
| SLL/SLR | Lumens | 1,990 | 2,498 | 3,259 | 4,080 | 4,823 | 5,488 | 2,164 | 2,705 | 3,529 | 4,418 | 5,222 | 5,942 |
| | BUG Rating | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U0-G1 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 | B1-U1-G2 |
| RW | Lumens | 2,380 | 2,988 | 3,898 | 4,880 | 5,768 | 6,564 | 2,465 | 3,095 | 4,037 | 6,054 | 5,974 | 6,798 |
| | BUG Rating | B2-U0-G0 | B2-U0-G0 | B2-U0-G0 | B2-U0-G0 | B2-U0-G0 | B2-U0-G0 | B3-U1-G1 | B3-U1-G1 | B3-U1-G1 | B3-U1-G1 | B3-U1-G1 | B3-U1-G1 |

LUMEN MAINTENANCE

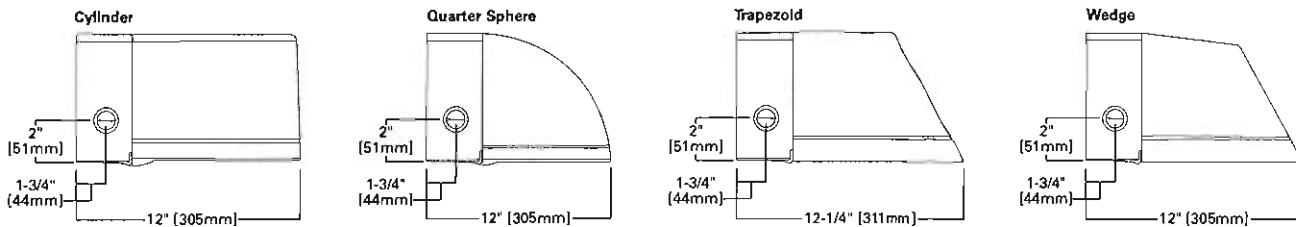
| Current | Ambient Temperature | 25000 Hours* | 50000 Hours* | 60000 Hours* | 100000 Hours* | Theoretical L70 (Hours)* |
|------------|---------------------|--------------|--------------|--------------|---------------|--------------------------|
| Up to 1.2A | Up to 40°C | >95% | >91% | >90% | >83% | 20,4000 |

*Data calculated based on TM-21 calculator.

LUMEN MULTIPLIER

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

THRUWAY BACK BOX



CONTROL OPTIONS

0-10V (DIM)

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

Photocontrol (PC1, PC2 and PER7)

Optional button-type photocontrol provides a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels.

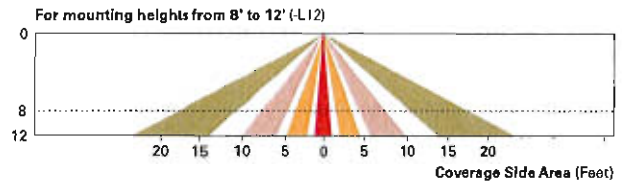
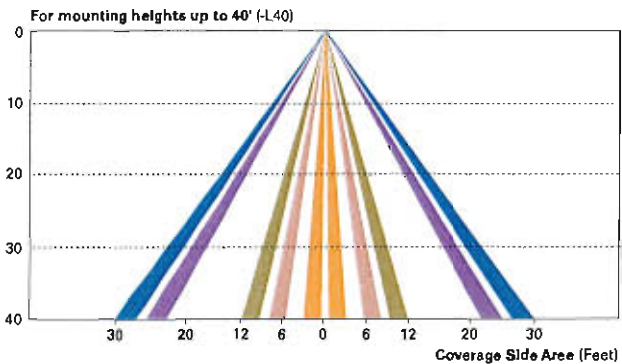
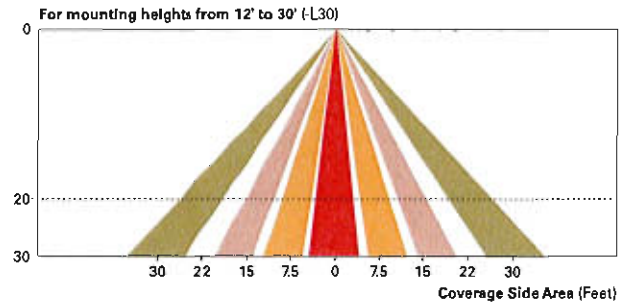
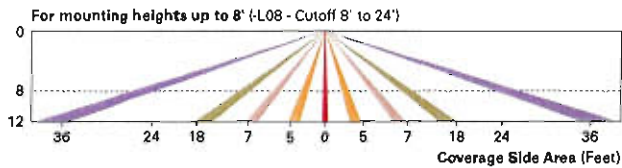
After Hours Dim (AHD)

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

Dimming Occupancy Sensor (MS/DIM-LXX)

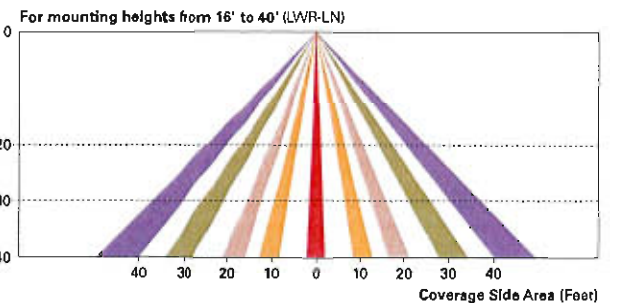
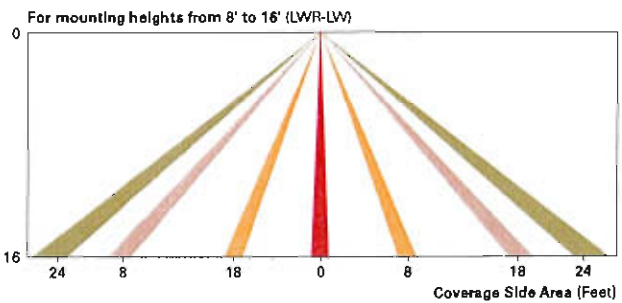
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting -- the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-40'.



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ORDERING INFORMATION

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| Options (Add as Suffix) | | | | Accessories (Order Separately) ¹⁷ | | |
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NOTES:

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- LumaWatt Pro wireless sensors are factory installed and requiring network components in appropriate quantities. See www.eaton.com/lighting for LumaWatt Pro application information.
- LED standard integral battery pack is rated for minimum operating temperature 32°F (0°C). Operates downlight for 30-minutes.
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- Only for use with SL2, SL3 and SL4 distributions. The LightSquare trim plate is painted black when the HSS option is selected.
- Removes additional surge module.
- Specify color in place of XX.

REFERENCE NUMBER
GFP-2010-205-03-M2
3.5" STEEL STRUCTURE DESIGN

| | |
|---------------------------|--------------------------|
| EQUIPMENT SIZE 25'X14' | USE ZONE 37'X26' |
| AGE GROUP 2-5 | SURFACE AREA 787 S.F. |

| | |
|------------------------|-----------------------|
| USER CAPACITY 13-18 | 4' TIMBER COUNT 29 |
|------------------------|-----------------------|

FALL HEIGHT
4'

ADA ACCESSIBILITY

ELEVATED
PLAY ACTIVITIES
4

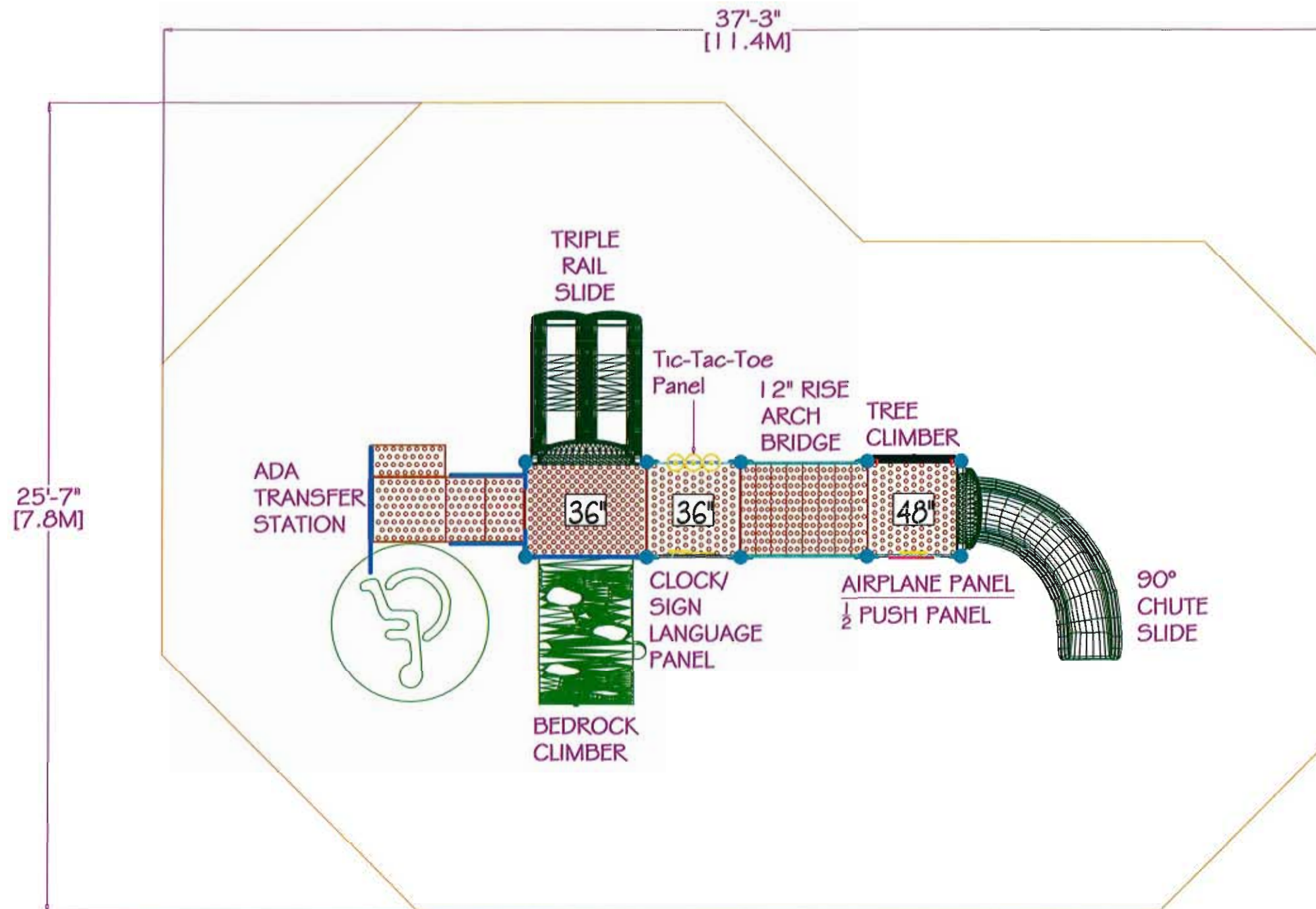
| | GROUND LEVEL ACCESSIBLE PLAY ACTIVITIES | GROUND LEVEL ACCESSIBLE ACTIVITY TYPES |
|----------|---|--|
| REQUIRED | 1 | 1 |
| PROVIDED | 1 | 1 |

THIS STRUCTURE MEETS OR EXCEEDS CPSC #325 AND ASTM F1487-11 UNLESS OTHERWISE NOTE.

| | |
|-----------------|--|
| DATE 3/22/17 | DRAWN/SAVED BY CK / AWILSON SHEET |
| SCALE NTS | 2 OF 2 |

PAGE
PLAN VIEW

WE RECOMMEND THIS PLAN BE PRINTED ON 11" x 17" PAPER



PLAYGROUND SUPERVISION IS REQUIRED.

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REFERENCE NUMBER
GFP-1758-205-03

3.5" STEEL STRUCTURE DESIGN

| | |
|--------------------------|--------------------------|
| EQUIPMENT SIZE 20'X8' | USE ZONE 33'X21' |
| AGE GROUP 2-5 | SURFACE AREA 571 S.F. |

| | |
|------------------------|-----------------------|
| USER CAPACITY 12-17 | 4' TIMBER COUNT 24 |
|------------------------|-----------------------|

FALL HEIGHT
3'

ADA ACCESSIBILITY

ELEVATED
PLAY ACTIVITIES
5

| | GROUND LEVEL ACCESSIBLE PLAY ACTIVITIES | GROUND LEVEL ACCESSIBLE ACTIVITY TYPES |
|----------|---|--|
| REQUIRED | 2 | 2 |
| PROVIDED | 2 | 2 |

THIS STRUCTURE MEETS OR EXCEEDS CPSC #325
AND ASTM F1487-11 UNLESS OTHERWISE NOTE.

| | |
|-----------------|--|
| DATE 3/27/17 | DRAWN/SAVED BY CK / CKELLER SHEET |
| SCALE NTS | 1 OF 1 |

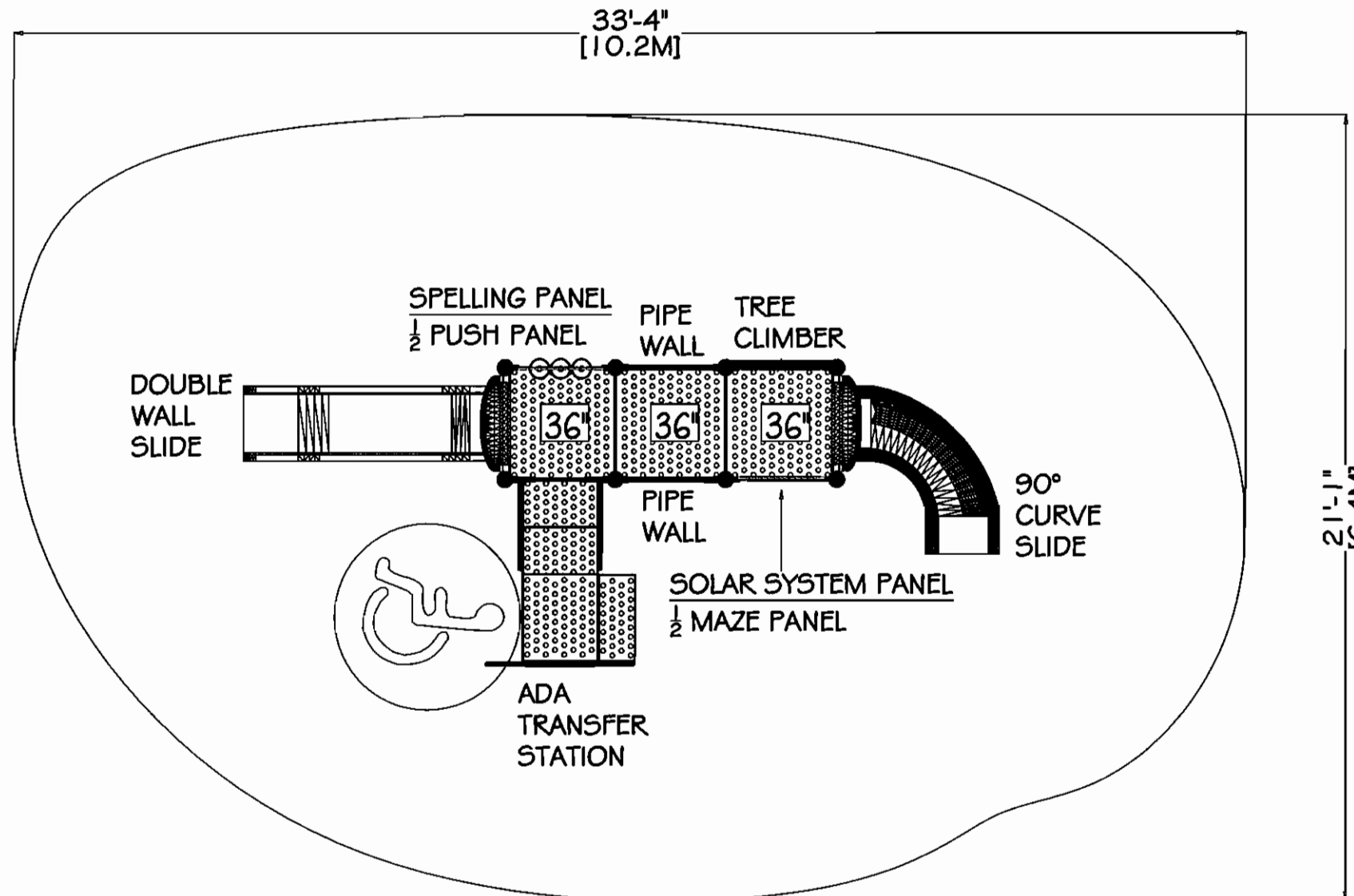
PAGE

PLAN VIEW

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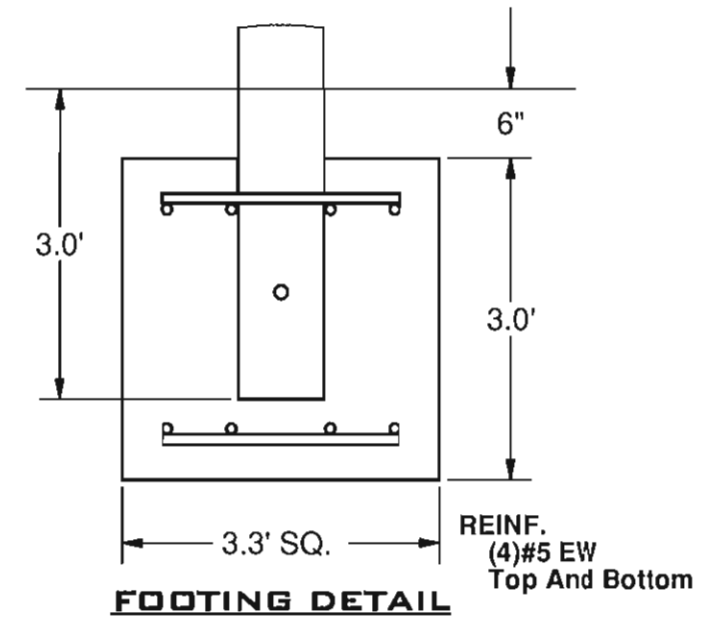
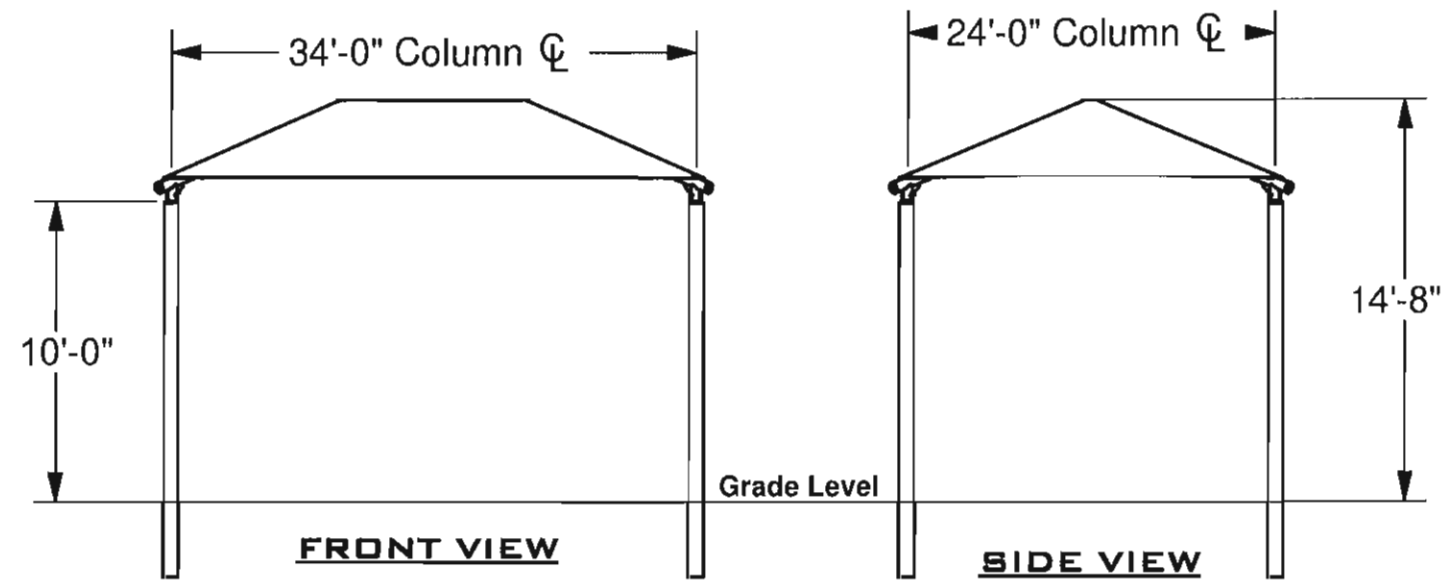


RECTANGLE HIP SHADE

24' x 34' x 10'

MODEL #:
RD243410IG (With Glide Elbows)
RD243410IN (Without Glide Elbows)

| REF.# | PART DESCRIPTION | QTY. |
|-------|----------------------------------|------|
| 1 | Ø6.6" Capped Embedded Column | 4 |
| 2 | Angled Elbow | 4 |
| 3 | Ø2.88" Hip Rafter w/ Swaged End | 4 |
| 4 | Ø2.88" Ridge Pole w/ Swaged Ends | 1 |
| 5 | Rectangle "Y" Connection | 2 |
| 6 | Fabric Cover w/ Cable Insert | 1 |
| 7 | Frame Hardware Kit | 1 |



*Footing design based on 1500 PSF soil bearing pressure.



SUPERIOR
RECREATIONAL PRODUCTS

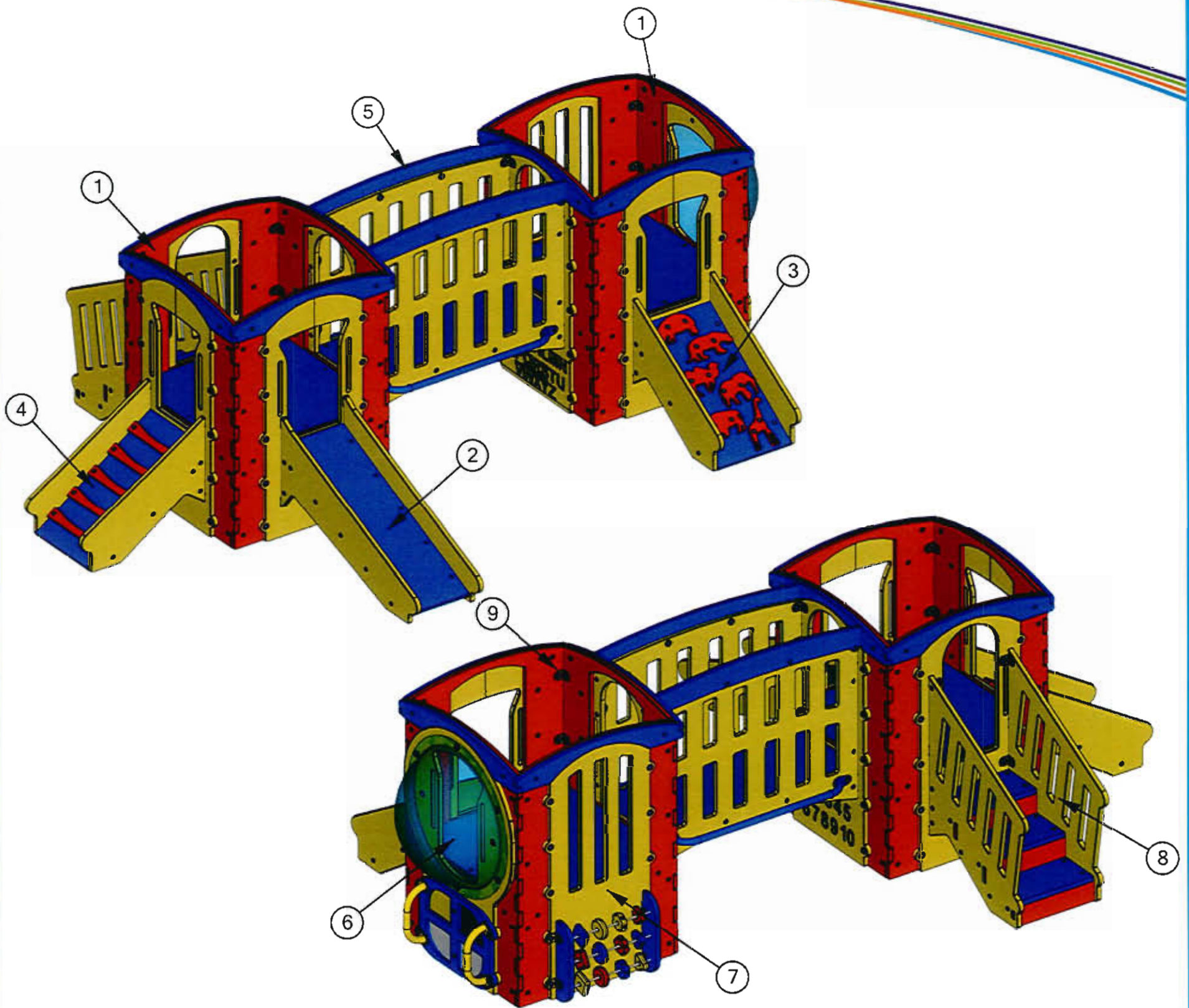
1050 Columbia Drive
Carrollton, Georgia
1.888.829.8997 | 770.834.2764 (f)

These drawings are for reference only and should not be used as construction details. Materials, fasteners, and foundations are subject to change if professionally sealed engineering drawings are required. Designed for 93 MPH Basic Wind Speed.

Tot-Trek Base and Starter Modules with Add-ons

Model: TFR0533XX

Age Group: 6-23 Months



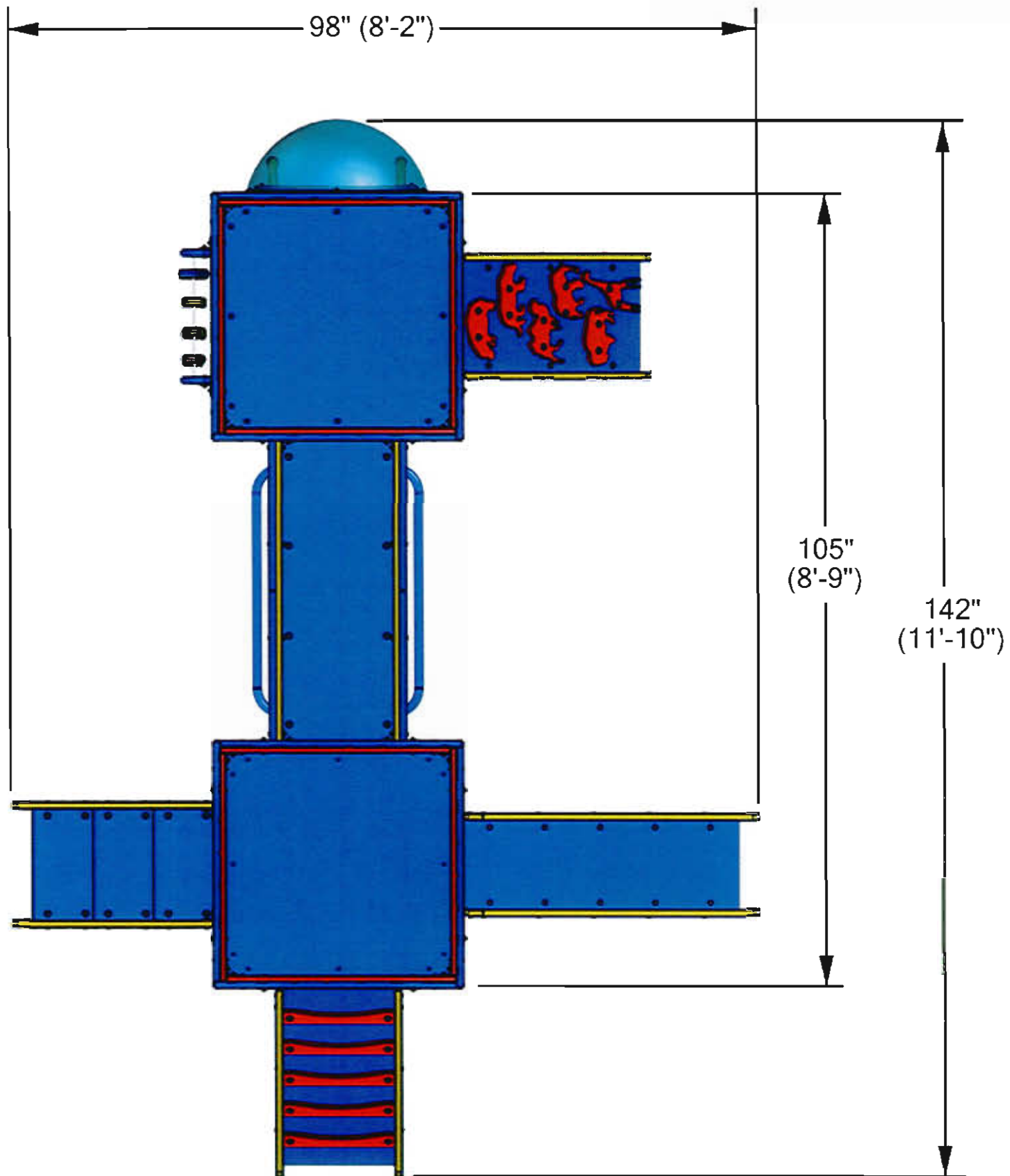
Total Weight: 695 lbs (315.2 kg)

| ITEM | QTY | DESCRIPTION | ITEM | QTY | DESCRIPTION |
|------|-----|------------------------------|------|------|-------------------------------------|
| 1 | 2 | Base Tower | 6 | 1 | Bubble / Texture Module |
| 2 | 1 | Slide Module | 7 | 1 | Barrier / Bead Module |
| 3 | 1 | Animal Rung Module | 8 | 1 | Stair Module |
| 4 | 1 | Straight Rung Climber Module | 9 | 1144 | Assembly Hardware (Stainless Steel) |
| 5 | 1 | Alphabet Bridge Module | | | |

Tot-Trek Base and Starter Modules with Add-ons

Model: TFR0533XX

Age Group: 6-23 Months

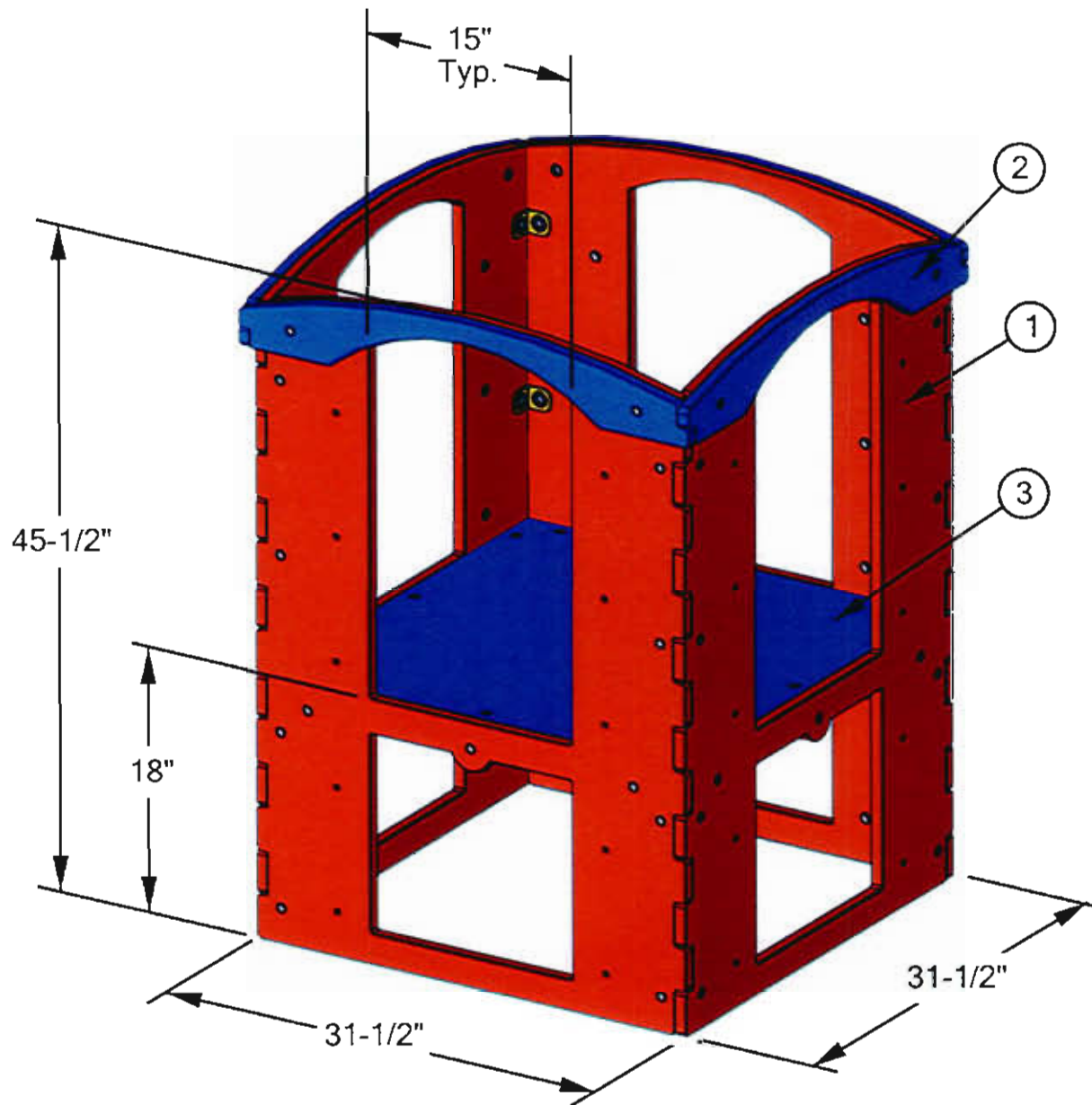


Plan View

Tot-Trek Base and Starter Modules with Add-ons

Model: TFR0533XX

Age Group: 6-23 Months



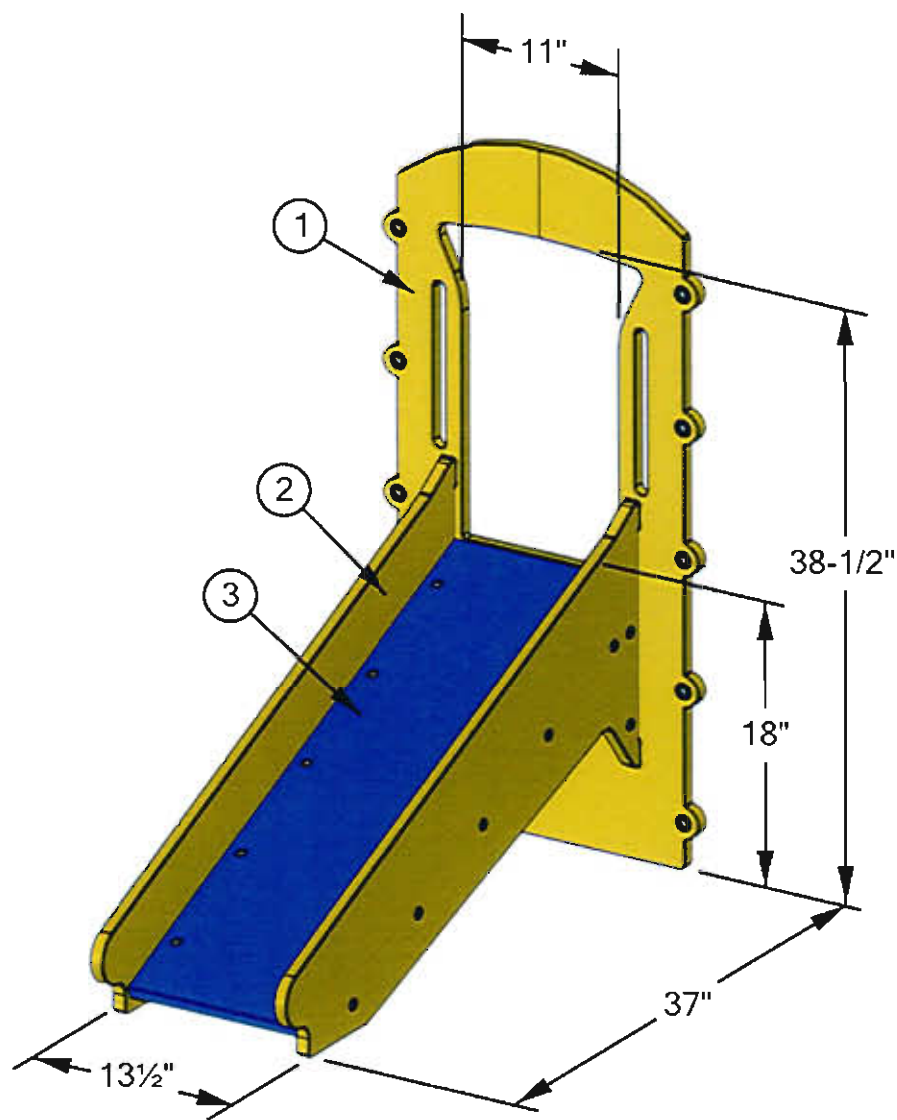
Base Tower

| ITEM | QTY | DESCRIPTION | MATERIAL |
|------|-----|------------------|----------|
| 1 | 4 | 3/4" Wall Panel | HDPE |
| 2 | 4 | 3/4" Trim Panel | HDPE |
| 3 | 1 | 3/4" Floor Panel | HDPE |

Tot-Trek Base and Starter Modules with Add-ons

Model: TFR0533XX

Age Group: 6-23 Months



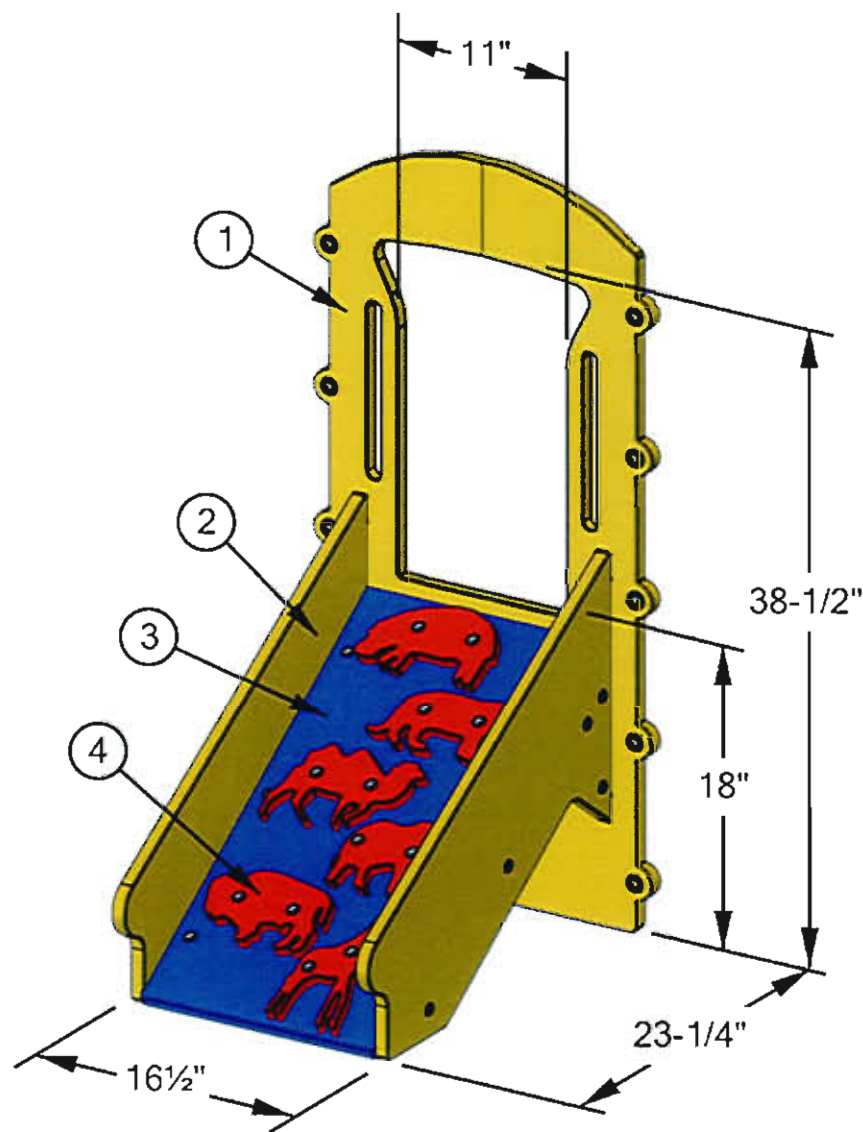
Slide Module

| ITEM | QTY | DESCRIPTION | MATERIAL |
|------|-----|------------------|----------|
| 1 | 1 | 3/4" Main Panel | HDPE |
| 2 | 2 | 3/4" Side Panel | HDPE |
| 3 | 1 | 3/4" Slide Panel | HDPE |

Tot-Trek Base and Starter Modules with Add-ons

Model: TFR0533XX

Age Group: 6-23 Months



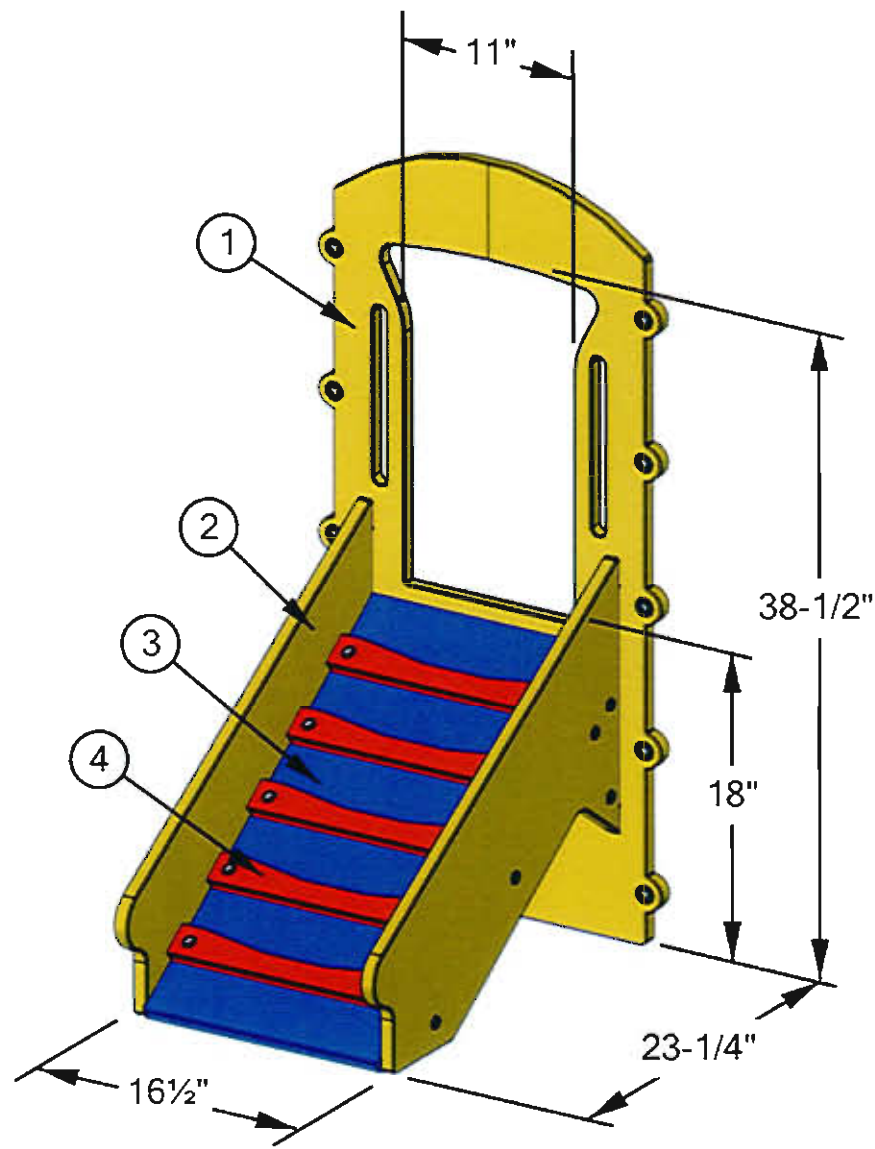
Animal Rung Climber Module

| ITEM | QTY | DESCRIPTION | MATERIAL |
|------|-----|-------------------|----------|
| 1 | 1 | 3/4" Main Panel | HDPE |
| 2 | 2 | 3/4" Side Panel | HDPE |
| 3 | 1 | 3/4" Slide Panel | HDPE |
| 4 | 6 | 3/4" Animal Shape | HDPE |

Tot-Trek Base and Starter Modules with Add-ons

Model: TFR0533XX

Age Group: 6-23 Months



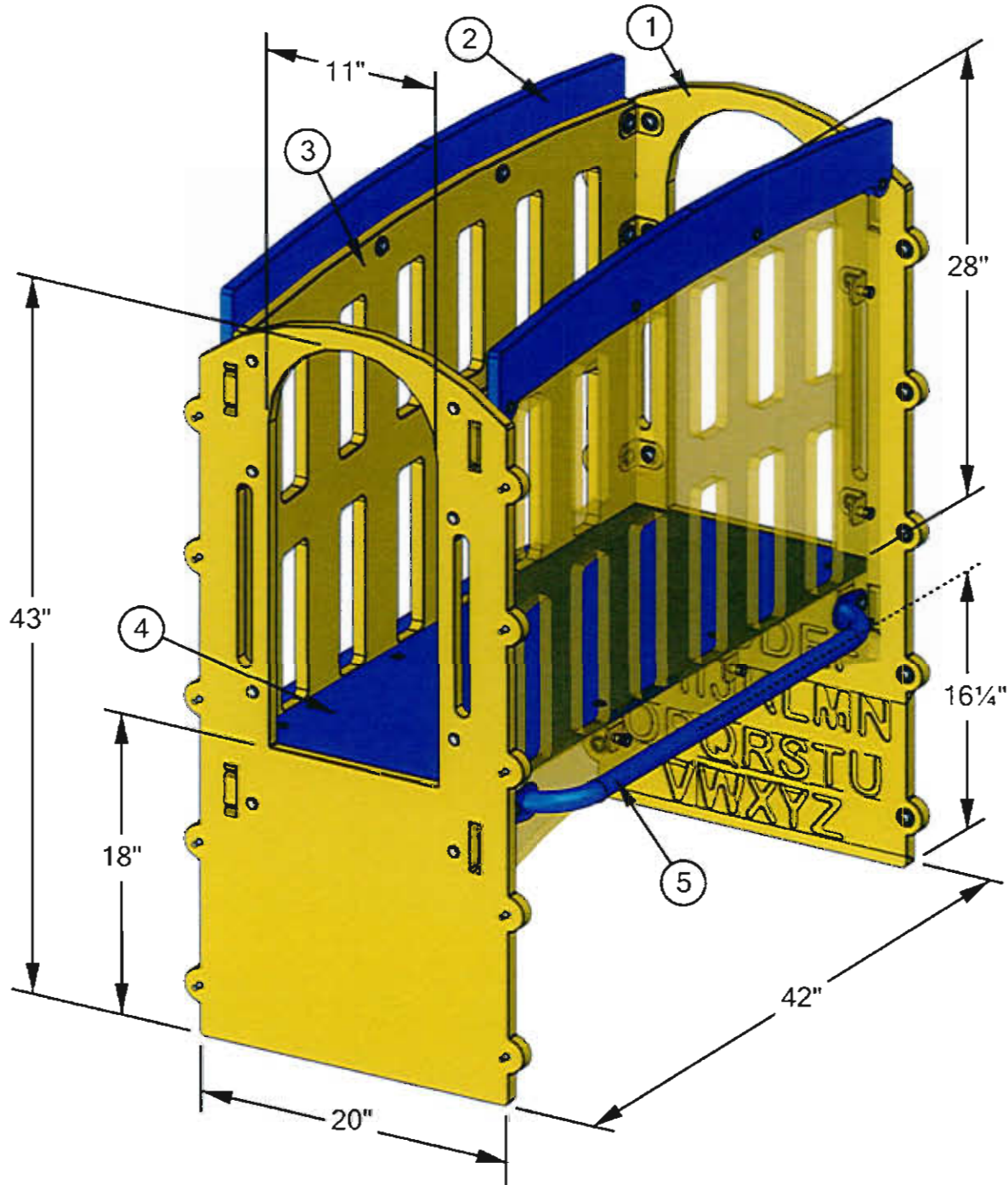
Straight Rung Climber Module

| ITEM | QTY | DESCRIPTION | MATERIAL |
|------|-----|--------------------------|----------|
| 1 | 1 | 3/4" Main Panel | HDPE |
| 2 | 2 | 3/4" Side Panel | HDPE |
| 3 | 1 | 3/4" Slide Panel | HDPE |
| 4 | 5 | 3/4" Straight Rung Panel | HDPE |

Tot-Trek Base and Starter Modules with Add-ons

Model: TFR0533XX

Age Group: 6-23 Months



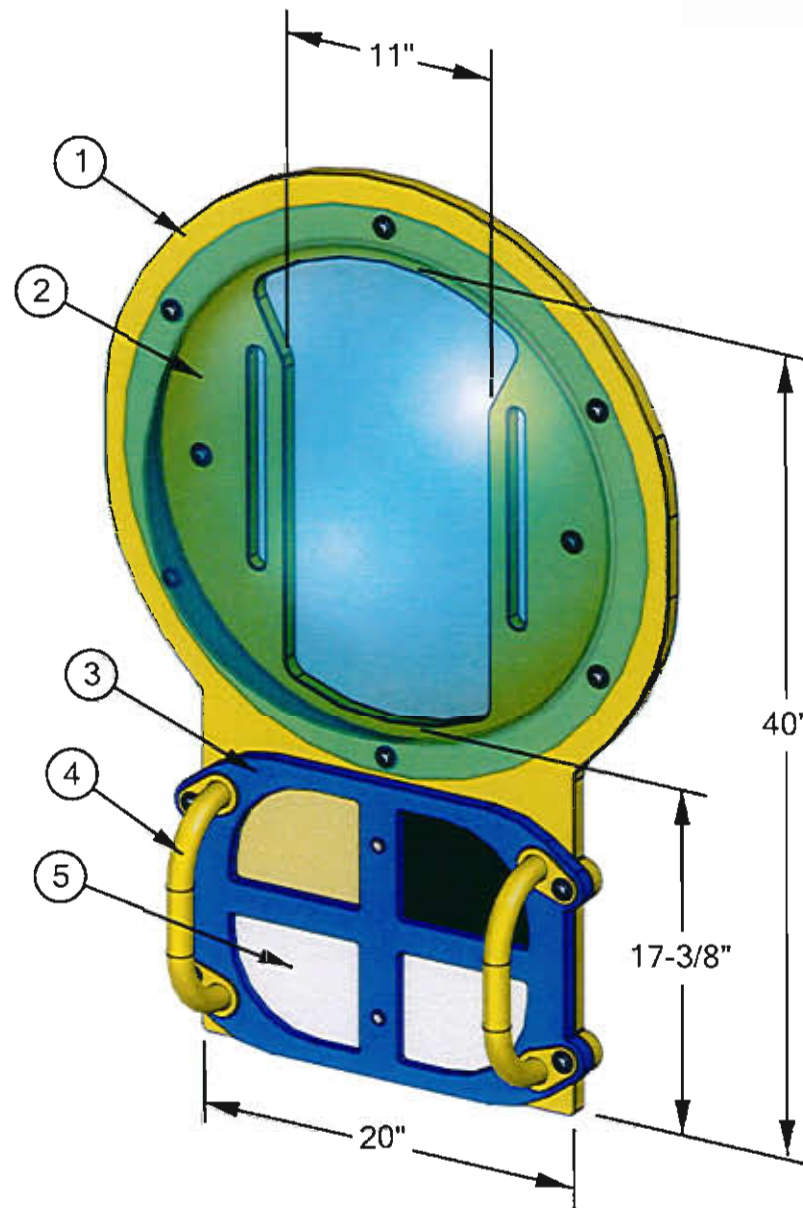
Alphabet Bridge Module

| ITEM | QTY | DESCRIPTION | MATERIAL |
|------|-----|-----------------------|---------------------|
| 1 | 2 | ¾" End Panel | HDPE |
| 2 | 2 | ¾" Top Trim Panel | HDPE |
| 3 | 2 | ¾" Side Barrier Panel | HDPE |
| 4 | 1 | ¾" Floor Panel | HDPE |
| 5 | 2 | Pull Up Bar | Powder Coated Steel |

Tot-Trek Base and Starter Modules with Add-ons

Model: TFR0533XX

Age Group: 6-23 Months



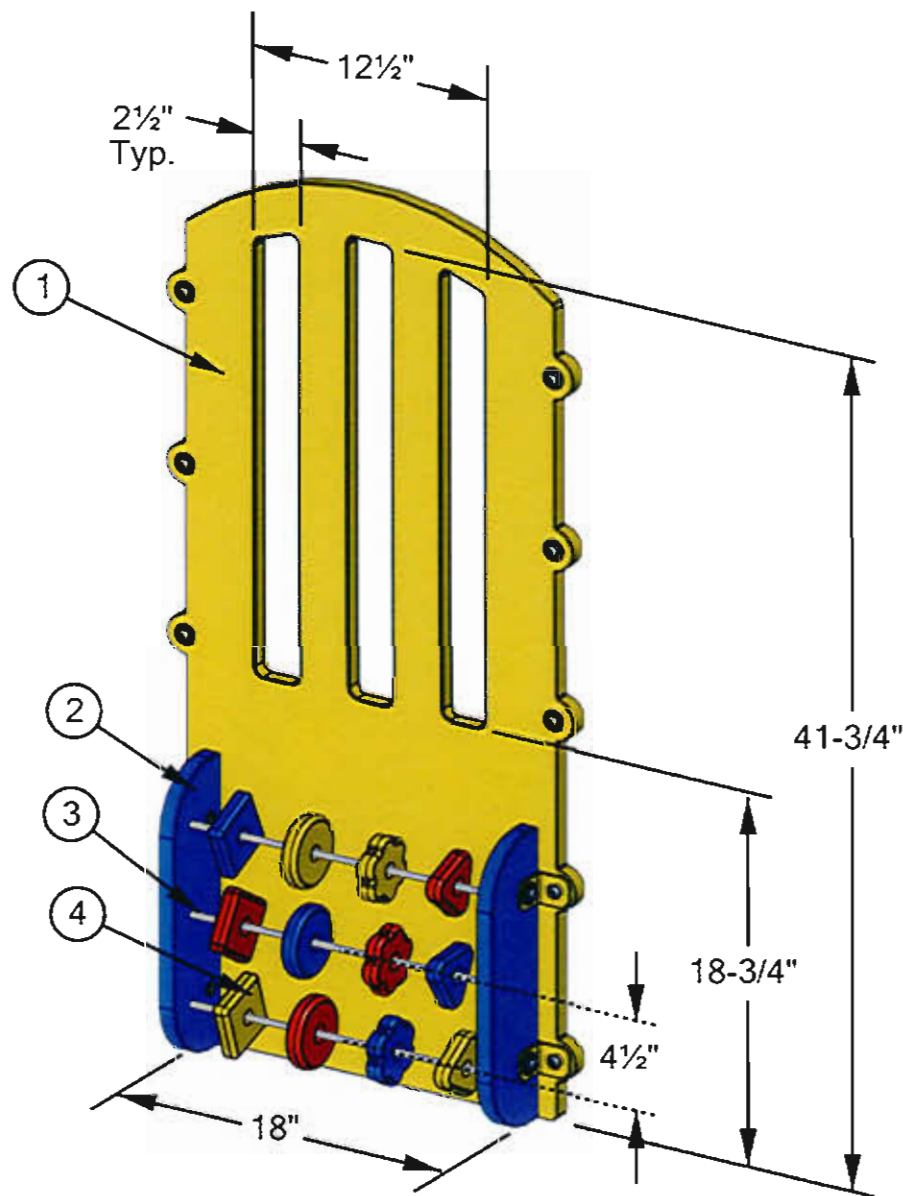
Bubble / Texture Panel Module

| ITEM | QTY | DESCRIPTION | MATERIAL |
|------|-----|----------------|---------------------|
| 1 | 1 | ¾" Main Panel | HDPE |
| 2 | 1 | Bubble Panel | Lexan |
| 3 | 1 | ¾" Frame Panel | HDPE |
| 4 | 2 | Grab Handle | Powder Coated Steel |
| 5 | 4 | Texture Panel | Various |

Tot-Trek Base and Starter Modules with Add-ons

Model: TFR0533XX

Age Group: 6-23 Months



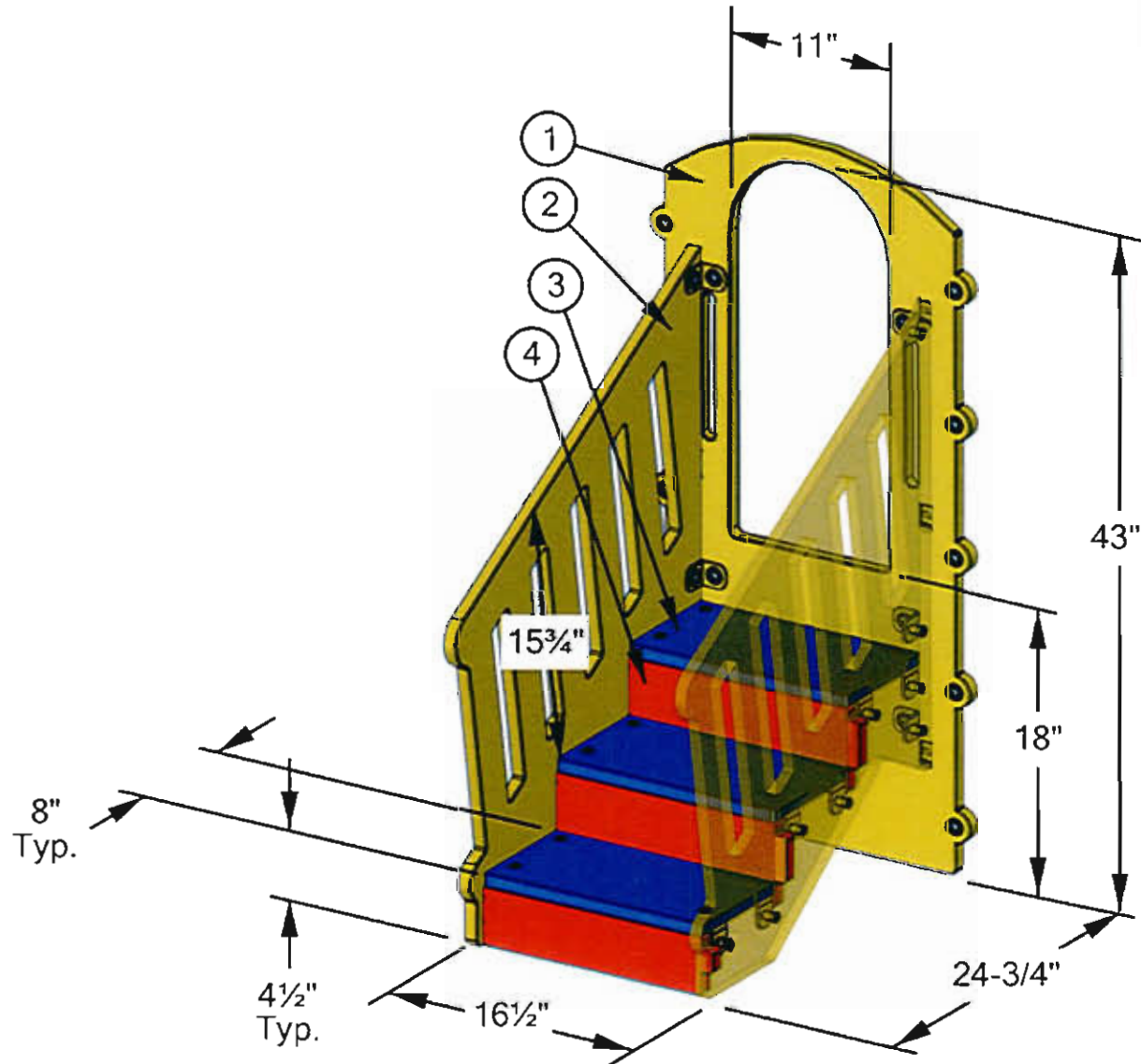
Barrier / Bead Panel Module

| ITEM | QTY | DESCRIPTION | MATERIAL |
|------|-----|----------------------------|-----------------|
| 1 | 1 | 3/4" Main Panel | HDPE |
| 2 | 2 | 3/4" Side Panel | HDPE |
| 3 | 3 | Bead Rod | Stainless Steel |
| 4 | 12 | 3/4" Bead - Various Shapes | HDPE |

Tot-Trek Base and Starter Modules with Add-ons

Model: TFR0533XX

Age Group: 6-23 Months



Stair Module

| ITEM | QTY | DESCRIPTION | MATERIAL |
|------|-----|--------------------|----------|
| 1 | 1 | 3/4" Main Panel | HDPE |
| 2 | 2 | 3/4" Barrier Panel | HDPE |
| 3 | 3 | 3/4" Step Panel | HDPE |
| 4 | 3 | 3/4" Kick Panel | HPDE |