



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

## Planning Commission Staff Report

Project Type:	Site Development Section Plan
Meeting Date:	July 11, 2016
From:	Justin Wyse Senior Planner
Location:	North of North Outer 40 Road, west of its intersection with Boone's Crossing.
Applicant:	Stock and Associates
Description:	MPD Investments, Adjusted Lot 2 (Beyond Self Storage at Chesterfield) SDSP: A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, Architect's Statement of Design, and Parking Modification for a 2.99 acre tract of land zoned "Pl" Planned Industrial District located north of North Outer 40 Road, west of its intersection with Boone's Crossing.

## PROPOSAL SUMMARY

Stock and Associates, on behalf of NorthPoint Development, has submitted a request for a 108,900 square foot self-storage facility located on the north side of North Outer 40 Road, west of its intersection with Boone's Crossing. The subject site is zoned "PI" Planned Industrial District and is governed under the terms and conditions of the City of Chesterfield Ordinance Number 2411.

## **HISTORY OF SUBJECT SITE**

The subject site was zoned 'C-8' Planned Commercial District and 'FPC-8' Flood Plain Planned Commercial District with permitted uses of offices, warehouses and the display and sale of lawn care equipment. The site was rezoned in 2007 from a Planned Commercial District to a 'Pl' Planned Industrial District by Ordinance Number 2411. The zoning map amendment increased the number of permitted uses and updated development criteria based on new standards within the City of Chesterfield.

A Site Development Concept Plan for MPD Investments was approved by the City of Chesterfield in 2007. Notably, the ordinance and concept plan restrict total number of access locations on North Outer 40 Road to encourage shared access drives and minimize impact of driveways on the public right-of-way.



Figure 1: Aerial image of subject site

## **COMPREHENSIVE PLAN ANALYSIS**

The subject site is located within Ward 4 of the City of Chesterfield. The City of Chesterfield Land Use Plan indicates that this parcel is within the Mixed Commercial Use Land Use designation, which is defined as a mixture of retail, low density office, and limited office/warehouse facilities.

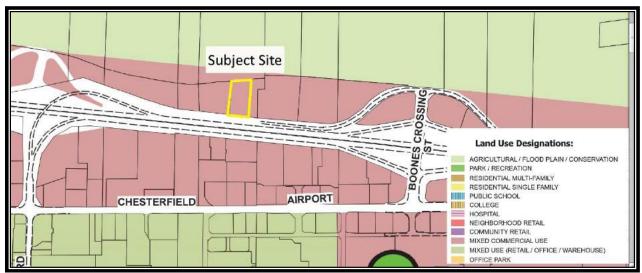


Figure 2: Future Land Use Map

## **STAFF ANALYSIS**

The subject site is zoned "PI" Planned Industrial District under the terms and conditions of City of Chesterfield Ordinance Number 2411. The ordinance requires compliance with the sky exposure plane, a minimum of 31% open space, and establishes setbacks for the development along the district boundaries (i.e. not on a parcel by parcel basis). Outdoor storage is permitted under Ordinance 2411 and the proposal shows a storage area situated to the north and east of the structure.

## **Circulation System and Access**

As mentioned previously, the approved planned district ordinance and Site Development Concept Plan restrict the development to two access locations off North Outer 40 with cross access to developments to the east. This will allow internal movement between uses without necessitating access to North Outer 40 Road. The proposal is consistent with the ordinance and concept plan requirements for access. The site will have access on the western end of the site through an existing shared access drive with the property to the west (Metro Lighting). The easternmost access will be a new curb cut and will be shared in the future by the development to the east.

The majority of the storage units are accessed internally. The proposal does include units accessible from the exterior of the building on the eastern side of the building. Access to these units and the outdoor storage area will be restricted access with a gate on the east side of the site.

### Parking

The parking requirement for Self-Storage Facilities specified within the Unified Development Code (UDC) for the City of Chesterfield is 1 space per 1,000 square feet of gross floor area. The applicant is requesting a modification to this parking requirement, and is proposing 22 public parking spaces in lieu of the 108 spaces required by code. Requests for parking reductions in excess of 20% require approval of the Planning Commission.

To support the applicant's parking reduction request, the Institute of Transportation Engineers (ITE) standards were referenced and two case studies were referenced to determine the appropriateness of the parking reduction. ITE provides a minimum parking ratio of 0.11 spaces per 1,000 square feet of gross floor area for "Mini-Warehouse" uses. These uses specifically include self-storage facilities. This requirement is nearly ten times lower than the requirement provided within the UDC, and would require 11 spaces to provide adequate parking accessibility for the proposed use. Under the current proposal, the 22 parking spaces will exceed the recommended parking for the use.

Two separate case studies were presented that support the parking reduction request. The study concluded that facilities with similar rentable areas to the current proposal require 11 parking spaces for office visits, staff parking, and storage area access. The Beyond Self Storage proposal includes 22 public parking spaces, and 4 interior access parking spaces for loading purposes. These 26 spaces exceed the minimum parking suggested by the study.

The final case study was conducted by the applicant's self-storage consultant. This based case study analyzed retail and office parking requirements for a similarly sized self-storage facility. The study determined that an average of 2.1 trips were generated for retail use, and 3.1 trips were generated for office use during the peak hour. The resulting parking requirement is 5.2 spaces for these functions on site. The 22 spaces proposed would exceed the necessary parking as determined by the study.

	Minimum Parking
	<u>Requirement (spaces)</u>
UDC Parking Requirement	108
ITE Standard	11
Study #1	11
Study #2	5.2

Table 1. Minimum Parking Requirements

It should also be noted that the outdoor storage area is not included in the proposed parking as these areas will not be available for public parking.

Staff has reviewed the proposal and is supportive of the request for the modification to provide 22 parking spaces on the site.

## Landscaping and Screening

The request includes landscaping required by the City of Chesterfield Tree Preservation and Landscape Requirements. This section requires a 30' landscape buffer along all collector or arterial roadways, which is proposed along North Outer 40 Road. The southern elevation will be planted with a mixture of shrubs along the entire frontage to soften the transition between building, turf, and pavement. Plantings along the east and west property boundaries provide screening from the adjacent parcels.

Plantings are not proposed to the north of the facility as plantings are not permitted within the seepage berm easement. This design is consistent with requirements from the Chesterfield Monarch Levee District and adjacent developments along North Outer 40.

The dumpster enclosure will match building materials and be screened by evergreens on the south and east sides. Building mechanical equipment is proposed to be located on the western side of the building. This equipment will be screened by additional landscaping.

## **Open Space**

City of Chesterfield Ordinance 2411 requires a minimum of 31% open space. The proposal includes 34.9% open space throughout the site. Open space is generally proposed around the perimeter of the site with larger areas along the south frontage (along North Outer 40 Road) and north property line (adjacent to the levee). In addition to aesthetic benefits of the open space, the areas include a stormwater channel along the southern frontage of the site and connecting

existing stormwater facilities along the corridor. Water quality features are also included on the southern and eastern edges of the site.

## Lighting

The plan proposes utilitarian lighting on all elevations. Lighting fixtures are proposed on areas of vertical brick projection, and above multiple entryways. The main southern access door will be lit via wall mounted fixtures located above the door for security and accessibility purposes. The parking area and outdoor storage area will be lit using fully shielded, flat lens luminaries. All proposed fixtures meet the requirements for building mounted wall lighting provided within the UDC.

## Architectural Elevations

The proposed structure is a three story building constructed of brick, metal, aluminum, and glass. The southern elevation of the building will include brick wainscoting, and incorporates vertical projections of brick to accent the articulation of the main entry area of the structure.

The Architectural Review Board (ARB) reviewed the project at their June 9, 2016 meeting. The Board recommended approval of the project with the following recommendations:

1. Increase the brick height to the southern elevation in line with the proposed man doors.

In response to this recommendation, the applicant extended the brick wainscoting to the top of the entry doors along the southern elevation as recommended by ARB.



## 2. Extend the landscaping near the office of the southern portion of the west elevation.

The applicant has added additional shrubs along the requested portion of the structure. The proposal adds 7 Minuet Weigela and 17 Prairie Fire Switch Grasses. These plantings are also used on the southern portion of the east elevation to maintain a consistent mix of plantings along the frontage of the structure.

3. Relocate the front row of shrubbery near the front parking area as far north as possible in proximity with the parking lot with consideration of the bio-retention area being the constraining factor.

The Landscape Plan has been updated to address this request. Plantings that were proposed along the northern and southern portions of the Master Stormwater Channel have been relocated along the southern edge of the parking lot. The new location will assist in shielding glare from vehicle headlights while vehicles enter and exit the parking area.

## **STAFF RECOMMENDATION**

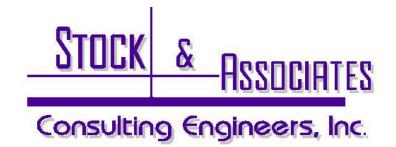
Staff has reviewed the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, Architect's Statement of Design, and Parking Modification and has found the proposal to be in compliance with the Site Specific Ordinance, the Site Development Concept Plan, and all City Code requirements. Staff recommends approval of the proposed development of MPD Investments, Adjusted Lot 2 (Beyond Self Storage).

## <u>MOTION</u>

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

- 1) "I move to approve (or deny) the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, Architect's Statement of Design, and Parking Modification for MPD Investments, Adjusted Lot 2 (Beyond Self Storage at Chesterfield).
- 2) "I move to approve (or deny) the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, Architect's Statement of Design, and Parking Modification for MPD Investments, Adjusted Lot 2 (Beyond Self Storage at Chesterfield) with a recommendation for approval with the following conditions..."
- Attachments: Site Development Section Plan Lighting Plan Landscape Plan Architect's Statement of Design Project Narrative Architectural Elevations Request for Parking Reduction

CC: Aimee Nassif



## BEYOND SELF STORAGE AT CHESTERFIELD 17481 NORTH OUTER FORTY ROAD

## **PROJECT NARRATIVE**

NorthPoint Development is highly interested in the Chesterfield, Missouri location for many reasons, including:

There is a relatively strong population base within the 5-mile trade area (80,000 residents and almost 30,000 households). Additionally, household incomes are double the state average (\$64,201), and 2.5 times the state average within the immediate 3-mile trade area, which is a very positive market indicator.

There is 4.0 SF per capita of existing self-storage space within 5 miles of the Subject Property and only 3.1 SF per capita within a 7-mile radius, so **the surrounding area appears to be undersupplied relative to the St. Louis area (6.5 SF), the state of MO (10.4 SF), and the entire U.S. (7.35 SF)**. In addition to this lack of supply, most of the existing competition is older and antiquated. There are some units with climate control, but none could be considered to have Class A amenities. NorthPoint Development is focused on satisfying the perceived need and providing value to the community by bringing an attractive, modern self-storage facility to this market. The project site is located within the "Mixed Commercial Use" corridor which is bound by North Outer Forty Road between Boone's Crossing on the East and Long Road to the West. The site is abutted by Metro Lighting to the West. The Current Zoning is "PI" Ordinance # 2411 and per City letter dated 3/7/2016 "Self Storage Facility" is permitted.

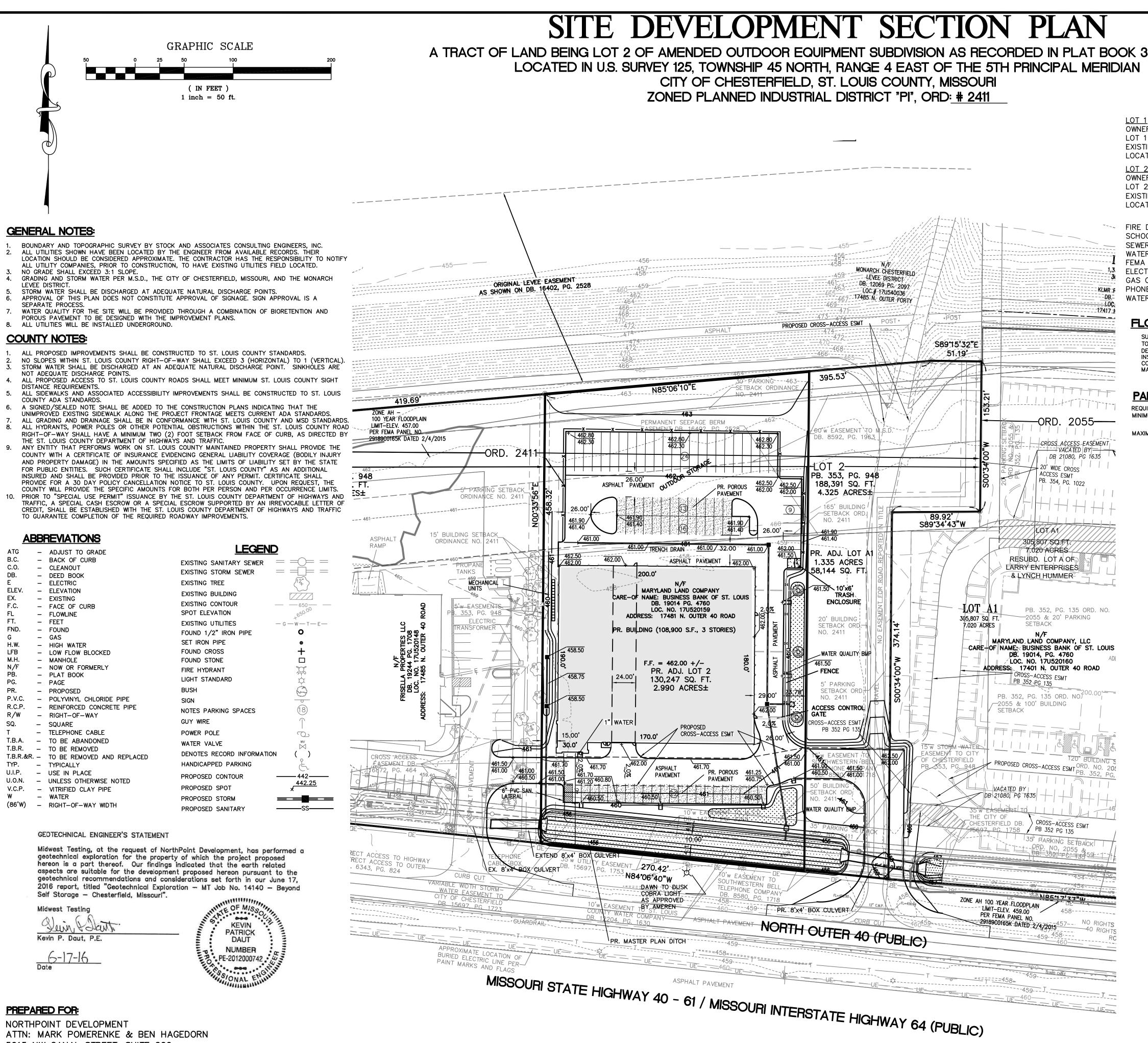
Our prototype facility is vastly different from what many would envision if asked to describe self-storage. Self-storage began as a land use alternative, often in less desirable locations, and was often built as inexpensively as possible. We at NorthPoint are focusing on Class A facilities in strong urban and suburban markets because of the operational value that comes from being in a prime location with good drive-by traffic and great visibility. Our properties will boast outstanding professionals who have excellent management and organizational skills including sales, customer service, and marketing.

This facility will be state-of-the-art with modern amenities including climate control, high-tech security and access control systems, and self service automation. The building will include a drive-in loading and unloading area for the convenience and security of the customers.

Attractive materials will be utilized on the exterior of the building and architectural interest pieces such as glass curtain walls will be included to ensure an aesthetically pleasing structure.

257 CHESTERFIELD BUSINESS PARKWAY •ST. LOUIS, MO 63005 •(636) 530-9100 Fax (636) 530-9130 • E-MAIL ADDRESS: <u>general@stockassoc.com</u> April 29, 2016 SELF-STORAGE NARRATIVE Page 2 of 2

This design is consistent with the "Chesterfield Valley Design Policies", which include highquality uniform materials and attractiveness of the building façade to I-64/US 40. Storage of vehicles will be located along the north side of building, facing the levee.



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B.C.	-	BACK OF CURB	EXISTING SANITARY SEWER $=$ $=$ $=$ $=$
C.O.	-	CLEANOUT	EXISTING STORM SEWER $=$
DB.	-	DEED BOOK	
E	-	ELECTRIC	EXISTING TREE
ELEV. EX.	-	ELEVATION	EXISTING BUILDING
F.C.	_		EXISTING CONTOUR650
FL	_		SPOT ELEVATION
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U.I.P.	-	USE IN PLACE	PROPOSED CONTOUR
U.O.N.	—	UNLESS OTHERWISE NOTED	442.25
V.C.P.	-	VITRIFIED CLAY PIPE	PROPOSED SPOT
W	-		PROPOSED STORM
(86 <b>'</b> W)	-	RIGHT-OF-WAY WIDTH	PROPOSED SANITARY

## PREPARED FOR:

NORTHPOINT DEVELOPMENT ATTN: MARK POMERENKE & BEN HAGEDORN 5015 NW CANAL STREET, SUITE 200 RIVERSIDE, MO 64150 (816) 888–7391 (MARK)

WAGNER FAMILY HOLDING'S ATTN: DANIEL J. WAGNER 4712 GREEN PARK ROAD St. Louis, MO 63123 (314) 892–1600

## M.S.D. BENCHMARKS

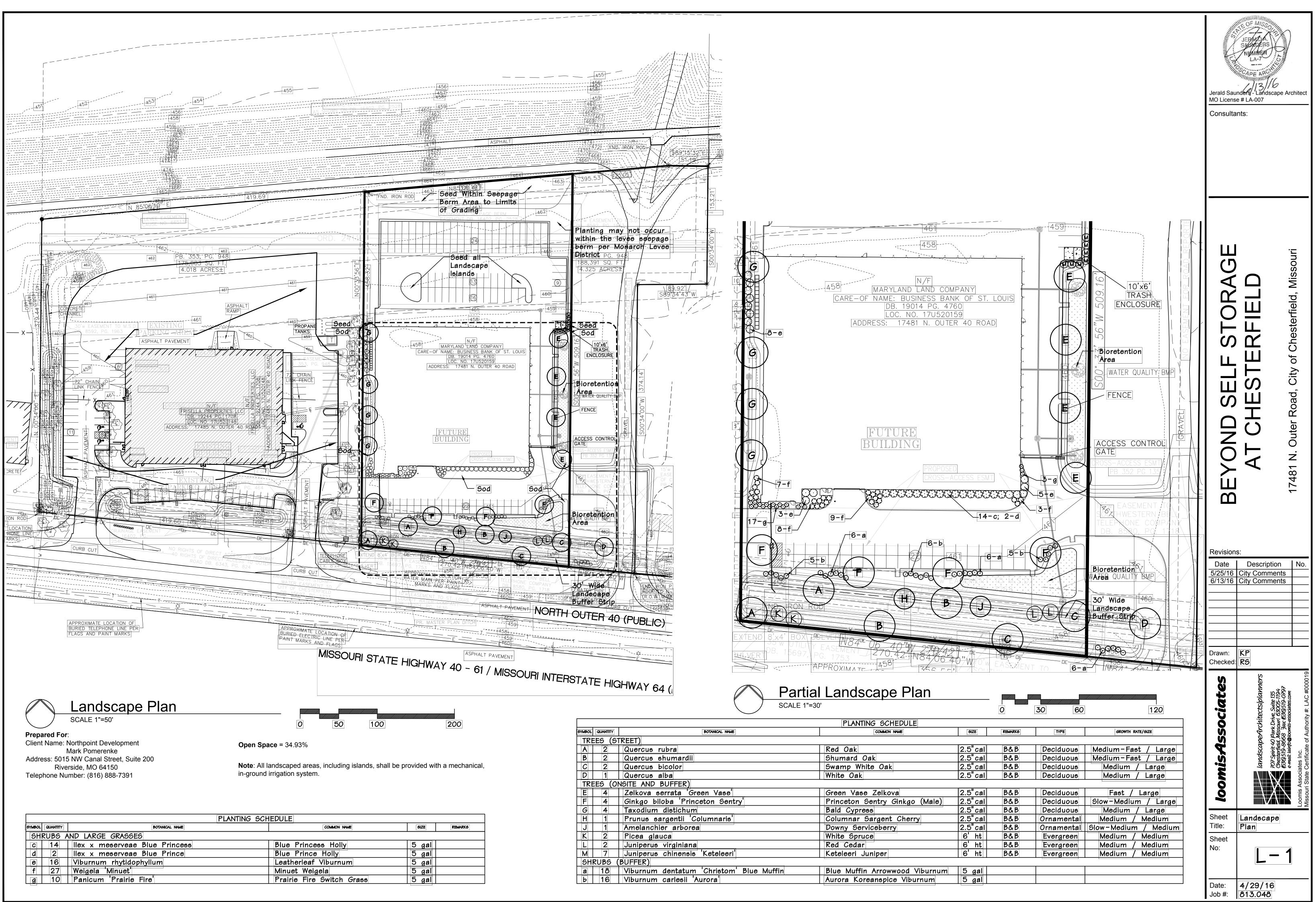
11—108 <u>486.82</u> — "Standard Aluminum Disk" stamped SL—40 1990 Disk is set along the north side of the North Outer Road of Highway 64 and the extended centerline of the Spirit of Saint Louis Boulevard; Approximately 0.3 mile north of Chesterfield Airport Road.

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.

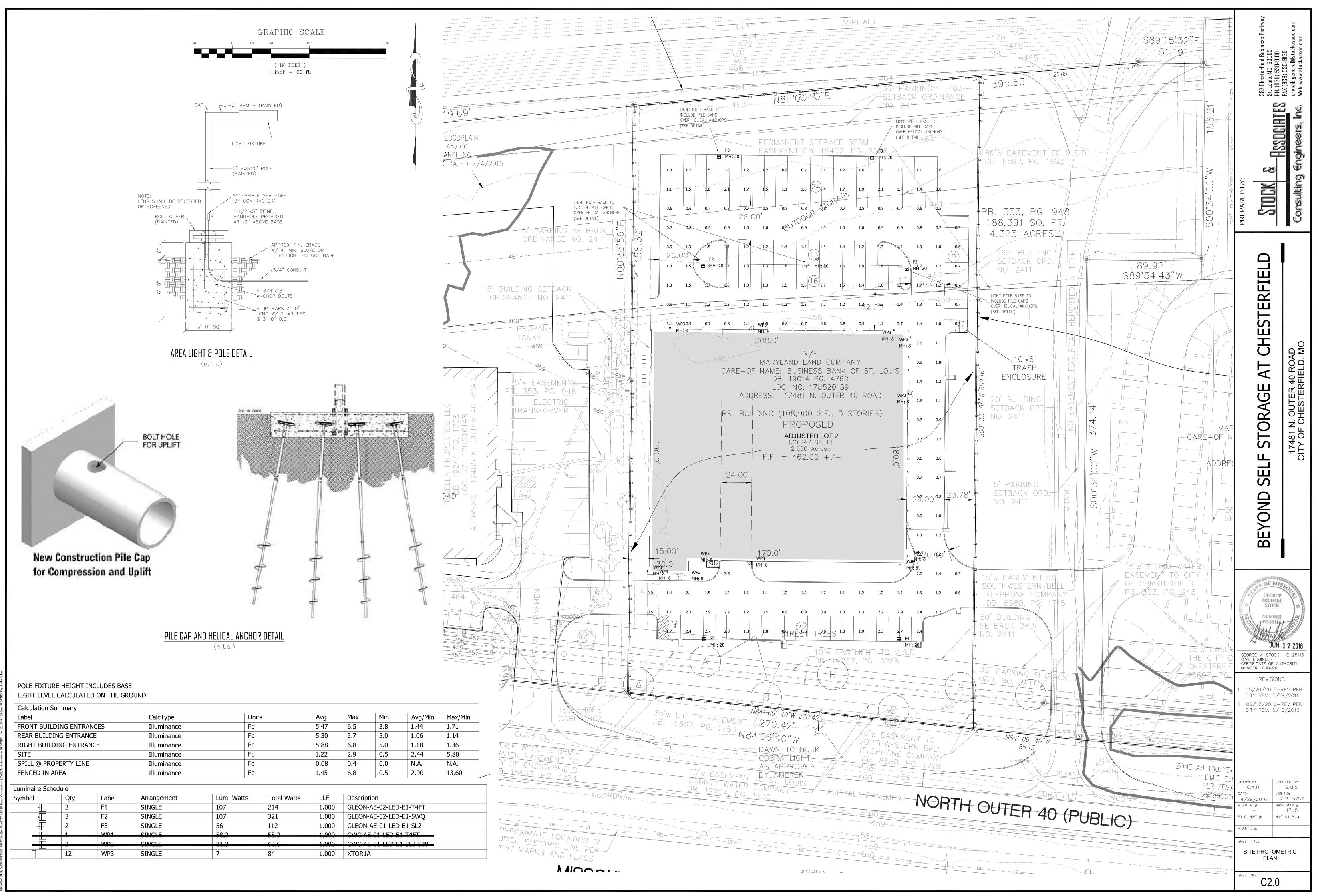
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R:	FRISELLA PROPERTIES, LLC			257   St. Li	PH. ( FAX ( e-me Web:
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	By: Aimee Nassif, AICP				
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	By: Vickie Hass, City Clerk				
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Daniel Ehlmann, Missouri L.S. No. 2215

SHEET NO .: <sup>¨</sup> C1.0



SYMBOL Q			
MABOL O			PLANTING SCHEDULE
	QUANTITY	BOTANICAL NAME	COMMON NAME
TREE	<u> 55 (61</u>	REET)	
Α	2	Quercus rubra	Red Oak
В	2	Quercus shumardii	Shumard Oak
C	2	Quercus bicolor	Swamp White Oak
D	1	Quercus alba	White Oak
TREE	<u>5</u> (01	NSITE AND BUFFER)	
E	4	Zelkova serrata 'Green Vase'	Green Vase Zelkova
F	4	Ginkgo biloba 'Princeton Sentry'	Princeton Sentry Ginkgo
G	4	Taxodium distichum	Bald Cypress
Η	1	Prunus sargentii 'Columnaris'	Columnar Sargent Cherr
J	1	Amelanchier arborea	Downy Serviceberry
K	2	Picea glauca	White Spruce
L	2	Juniperus virginiana	Red Cedar
Μ	7	Juniperus chinensis 'Keteleeri'	Keteleeri Juniper
SHRL	UBS (	BUFFER)	
а	18	Viburnum dentatum 'Christom' Blue Muffin	Blue Muffin Arrowwood
Ь	16	Viburnum carlesii 'Aurora'	Aurora Koreanspice Vibu



#### DESCRIPTION

The Galleon<sup>™</sup> LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics<sup>™</sup> 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.

## **McGraw-Edison**

Catalog #	Туре
Project	
Comments	Date
Prepared by	

#### SPECIFICATION FEATURES

#### Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, diecast 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. Optional toolless 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 6000K CCT and 3000K 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 530mA and 700mA drive currents.

#### Mounting

STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during assembly. 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. 3G vibration rated. QUICK MOUNT ARM: Arm is bolted directly to the pole and the fixture slides onto the quick mount arm and is secured via a single fastener, 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 knockout 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 colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

#### Warranty

Five-year warranty.

DRILLING PATTERN

[51mm]

1-3/4

[44mm]

TYPE "N"

C-



## GALLEON LED

1-10 Light Squares Solid State LED

AREA/SITE LUMINAIRE



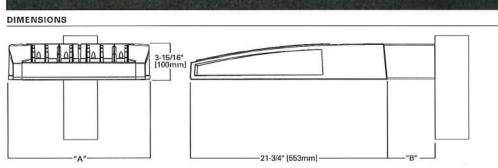
#### CERTIFICATION DATA

UL/cUL Wet Location Listed ISO 9001 LM79 / LM80 Compliant 3G Vibration Rated IP66 Rated DesignLights Consortium<sup>TM</sup> 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)





#### DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length 1	Weight with Arm (lbs.)	EPA with Arm <sup>2</sup> (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.



(2) 9/16" [14mm] Diameter Holes

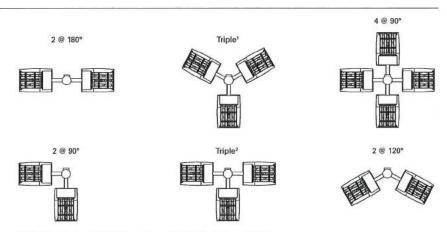
3/4" [19mm] Diameter Hole

7/8" [22mm]

#### GLEON GALLEON LED

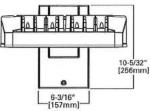
#### ARM MOUNTING REQUIREMENTS

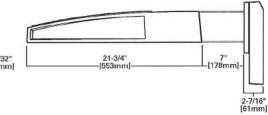
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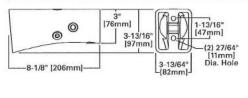
NOTES: 1 Round poles are 3 @ 120". Square poles are 3 @ 90". 2 Round poles are 3 @ 90".

#### STANDARD WALL MOUNT

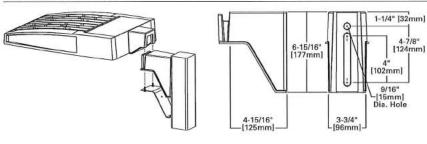


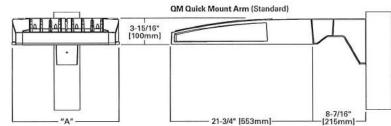


MAST ARM MOUNT



#### QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)





QMEA Quick Mount Arm (Extended)

#### QUICK MOUNT ARM DATA

Number of Light Squares <sup>1, 2</sup>	"A" Width	Weight with QM Arm (lbs.)	Weight with QMEA Arm (lbs.)	EPA (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)	
5-6°	21-5/8" (549mm)	46 (20.91 kgs.)	49 (22.27 kgs.)	1.11
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.

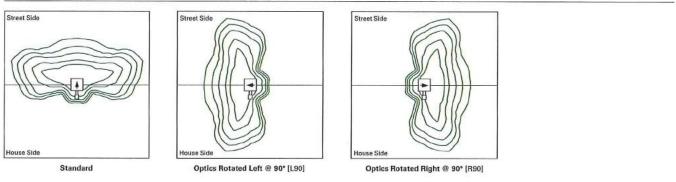


Eaton 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.eaton.com/lighting

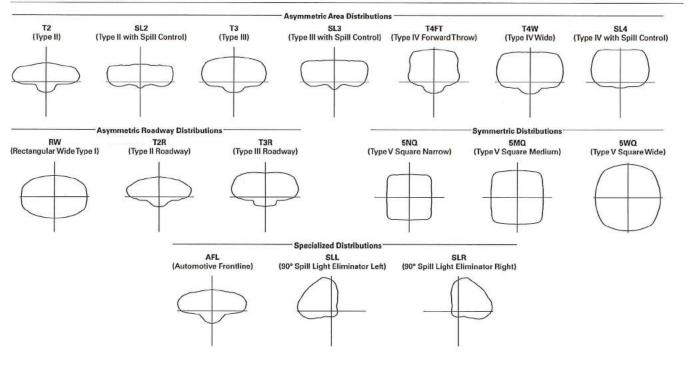
Specifications and dimensions subject to change without notice.

#### GLEON GALLEON LED

#### OPTIC ORIENTATION



#### OPTICAL DISTRIBUTIONS





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Specifications and dimensions subject to change without notice.

#### NOMINAL POWER AND LUMENS (1A)

Number of	Light Squares	1	2	3	4	5	6	7	8	9	10
Drive Curre	ent	1A									
Nominal Po	ower (Watts)	56	107	157	213	264	315	370	421	475	528
Input Curre	ent @ 120V (A)	0.47	0.90	1.31	1,79	2.21	2.64	3.09	3.51	3.96	4.41
Input Curre	ent @ 208V (A)	0.28	0.51	0.74	1.02	1.25	1.48	1.76	1.99	2.22	2.50
Input Curre	ent @ 240V (A)	0.25	0.45	0.65	0.90	1.10	1.30	1.55	1.75	1.95	2.20
Input Curre	ent @ 277V (A)	0.23	0.41	0.59	0.82	1.00	1.18	1.41	1.59	1.77	2.00
Optics			//								
<b>T</b> 0	Lumens	5,272	10,303	15,373	20,313	25,168	30,118	35,618	40,357	45,018	49,842
T2	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
TOD	Lumens	5,597	10,938	16,321	21,565	26,719	31,974	37,813	42,844	47,792	52,914
T2R	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5
-	Lumens	5,374	10,501	15,669	20,704	25,652	30,697	36,303	41,134	45,884	50,802
Т3	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
700	Lumens	5,493	10,735	16,017	21,164	26,222	31,379	37,110	42,048	46,904	51,930
T3R	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-G8
	Lumens	5,405	10,562	15,760	20,824	25,801	30,875	36,514	41,372	46,150	51,096
T4FT	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	B3-U0-G5
T 414/	Lumens	5,335	10,426	15,556	20,555	25,468	30,476	36,042	40,838	45,554	50,436
T4W	BUG Rating	B1-U0-G2	B2-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
SL2	Lumens	5,263	10,285	15,347	20,278	25,124	30,066	35,556	40,288	44,940	49,756
SLZ	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
01.0	Lumens	5,373	10,500	15,667	20,701	25,649	30,693	36,298	41,128	45,878	50,794
SL3	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	Lumens	5,105	9,976	14,886	19,669	24,370	29,163	34,488	39,078	43,591	48,262
314	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	Lumens	5,542	10,830	16,160	21,352	26,455	31,658	37,439	42,421	47,320	52,392
SING	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-G4
5MQ	Lumens	5,644	11,029	16,457	21,745	26,942	32,241	38,128	43,202	48,191	53,356
SIVIG	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	85-U0-G5
5WQ	Lumens	5,659	11,059	16,501	21,803	27,014	32,327	38,230	43,317	48,320	53,498
5000	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-G
SLL/SLR	Lumens	4,722	9,227	13,767	18,191	22,539	26,971	31,897	36,141	40,315	44,635
ocuoch	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G
DW	Lumens	5,492	10,732	16,014	21,159	26,216	31,372	37,101	42,038	46,893	51,918
RW	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G
A.E.I	Lumens	5,512	10,771	16,072	21,236	26,311	31,486	37,236	42,191	47,063	52,107
AFL	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G

\* Nominal data for 4000K CCT.

#### LUMEN MULTIPLIER

### LUMEN MAINTENANCE

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

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

50°C lumen maintenance data applies to 530mA and 700mA drive currents.



#### NOMINAL POWER AND LUMENS (700MA)

Number of	f Light Squares	1	2	3	4	5	6	7	8	9	10
Drive Curr	ent	700mA	700mA								
Nominal P	ower (Watts)	38	72	105	138	176	210	243	276	314	348
Input Curr	ent @ 120V (A)	0.32	0.59	0.86	1.14	1.45	1.72	2	2.28	2.58	2.86
Input Curre	ent @ 208V (A)	0.21	0.36	0.51	0.67	0.87	1.02	1.18	1.34	1.53	1.69
Input Curre	ent @ 240V (A)	0.19	0.32	0.45	0.59	0.77	0.90	1.04	1.18	1.35	1.49
Input Curre	ent @ 277V (A)	0.20	0.29	0.40	0.51	0.69	0.80	0.91	1.02	1.20	1.31
Optics											
Т2	Lumens	3,854	7,531	11,237	14,847	18,395	22,013	26,033	29,497	32,904	36,430
12	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-G
T2R	Lumens	4,091	7,995	11,929	15,762	19,529	23,370	27,638	31,316	34,932	38,676
128	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G
70	Lumens	3,928	7,676	11,453	15,133	18,750	22,437	26,534	30,065	33,537	37,132
Т3	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-G
T3R	Lumens	4,015	7,846	11,707	15,469	19,166	22,936	27,124	30,733	34,283	37,957
13H	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-G
T.0.T	Lumens	3,951	7,720	11,519	15,221	18,858	22,567	26,688	30,240	33,732	37,347
T4FT	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-G
T4W	Lumens	3,900	7,620	11,370	15,024	18,615	22,276	26,343	29,849	33,296	36,864
	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-G
SL2	Lumens	3,847	7,518	11,217	14,821	18,364	21,975	25,988	29,447	32,847	36,368
OLZ	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-G4	B3-U0-G
SL3	Lumens	3,927	7,675	11,451	15,131	18,747	22,434	26,531	30,061	33,533	37,126
313	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-G
SL4	Lumens	3,731	7,292	10,880	14,376	17,812	21,315	25,208	28,562	31,861	35,275
314	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	B2-U0-G5	B3-U0-G
5NQ	Lumens	4,051	7,916	11,811	15,606	19,336	23,139	27,365	31,006	34,587	38,294
SNG	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G
5MQ	Lumens	4,125	8,062	12,029	15,894	19,692	23,565	27,869	31,577	35,224	38,999
SMQ	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G
5WQ	Lumens	4,136	8,083	12,061	15,936	19,745	23,628	27,943	31,661	35,318	39,103
	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-G
SLL/SLR	Lumens	3,451	6,744	10,063	13,296	16,474	19,714	23,314	26,416	29,467	32,625
SCL/SCH	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-G
DW	Lumens	4,014	7,844	11,704	15,465	19,162	22,930	27,118	30,726	34,274	37,948
RW	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-G
A.E.I.	Lumens	4,029	7,873	11,747	15,522	19,231	23,014	27,216	30,838	34,399	38,086
AFL	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-G

\* Nominal data for 4000K CCT.

#### LUMEN MULTIPLIER

### LUMEN MAINTENANCE

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

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

 50°C lumen maintenance data applies to 530mA a 700mA drive currents.



#### NOMINAL POWER AND LUMENS (530MA)

Number of	f Light Squares	1	2	3	4	5	6	7	8	9	10
Drive Curre	ent	530mA									
Nominal P	ower (Watts)	30	54	80	105	130	159	184	209	234	259
Input Curre	ent @ 120V (A)	0.25	0.45	0.66	0.86	1.07	1.32	1.52	1.72	1.93	2.14
Input Curre	ent @ 208V (A)	0.17	0.28	0.39	0.51	0.63	0.78	0.9	1.02	1.14	1.26
Input Curre	ent @ 240V (A)	0.17	0.25	0.35	0.45	0.55	0.70	0.80	0.90	1.00	1.10
Input Curre	ent @ 277V (A)	0.19	0.24	0.32	0.40	0.49	0.64	0.72	0.80	0.89	0.98
Optics											
-	Lumens	3,079	6,017	8,978	11,862	14,697	17,588	20,800	23,567	26,289	29,106
Т2	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G
	Lumens	3,269	6,388	9,531	12,593	15,603	18,672	22,082	25,020	27,909	30,900
T2R	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G
<b>T</b> 0	Lumens	3,138	6,133	9,150	12,091	14,980	17,926	21,200	24,021	26,795	29,667
Т3	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-G
	Lumens	3,208	6,269	9,354	12,359	15,313	18,325	21,671	24,555	27,390	30,326
T3R	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G
	Lumens	3,156	6,168	9,203	12,161	15,067	18,030	21,323	24,160	26,950	29,839
T4FT	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G
T4W	Lumens	3,116	6,088	9,084	12,004	14,872	17,797	21,047	23,848	26,602	29,453
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G
	Lumens	3,074	6,006	8,962	11,842	14,672	17,558	20,764	23,527	26,244	29,056
SL2	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G
	Lumens	3,138	6,132	9,149	12,089	14,978	17,924	21,197	24,018	26,791	29,662
SL3	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G
	Lumens	2,981	5,826	8,693	11,486	14,231	17,030	20,140	22,820	25,456	28,184
SL4	BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G
	Lumens	3,236	6,324	9,437	12,469	15,449	18,487	21,863	24,773	27,634	30,595
5NQ	BUG Rating	B1-U0-G0	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G
	Lumens	3,296	6,441	9,610	12,698	15,733	18,828	22,266	25,229	28,142	31,158
5MQ	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-G
5140	Lumens	3,305	6,458	9,636	12,732	15,775	18,878	22,325	25,296	28,217	31,241
5WQ	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G
	Lumens	2,757	5,388	8,040	10,623	13,162	15,751	18,627	21,105	23,543	26,066
SLL/SLR	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4
-	Lumens	3,207	6,267	9,351	12,356	15,309	18,320	21,666	24,549	27,384	30,319
RW	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G
	Lumens	3,219	6,290	9,385	12,401	15,365	18,387	21,745	24,638	27,484	30,429
AFL	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G

\* Nominal data for 4000K CCT.

### LUMEN MULTIPLIER

### LUMEN MAINTENANCE

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

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)		
25°C	> 94%	> 350,000		
40°C	> 93%	> 250,000		
50°C*	> 90%	> 170,000		

700mA drive currents.



#### ORDERING INFORMATION

Sample Number:	GLEON-	AF-04-1	FD-F1	-T3-GM-700	

	Light Engine	Number of Light Squares <sup>3</sup>	Lamp Type	Voltage	Distribution		Color	Mounting
GLEON=Galleon	AE=1A Drive Current	01=1 02=2 03=3 04=4 05=5 06=6 07=7 4 08=8 4 09=9 5 10=10 5	LED=Solid State Light Emitting Diodes	E1=(120-277V) 347=347V <sup>4</sup> 480=480V <sup>6,7</sup>		dway rward Throw de row Jare Medium Jare Wide Jill Control pill Control pht Eliminator Left ght Eliminator Right Wide Type I	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm * MA=Mast Arm Adapter * WM=Wall Mount QM=Quick Mount Arm (Standard Length) <sup>19</sup> QMEA=Quick Mount Arm (Extended Length) <sup>11</sup>
Options (Add as Suf	fix)					Accessories (Order S	eparately)	
MS/DIM-L20=Motid MS/DIM-L40W=Motid MS/DIM-L40W=Mot MS/X-L08=Bi-Level MS/X-L40=Bi-Level MS/X-L40=Bi-Level MS/X-L40=Bi-Level MS/L40=Bi-Level MS-L20=Motion Se MS-L40=Motion Se MS-L40=Motion Se MS-L40=Motion So MS-L40=Motion So	(14 actory Set to 52 Factory Set to 72 Factory Set to 72 tocontrol (120, 2 Twistlock Photo Photocontrol Re lent <sup>13,17</sup> on Sensor for Di on Sensor for Di on Sensor for Di on Sensor for D Motion Sensor, Motion Sensor, Motion Sensor, Motion Sensor, Motion Sensor, Motion Sensor, Motion Sensor, Sensor for ON/OFF nsor for ON/OFF Sensor for DI Sensor	20mA <sup>16</sup> 008, 240 or 277V) control Receptacle aceptacle mming Operation, mming Operation, maing Operation, Maximum 8' Mou , 9' - 20' Mounting or, 21' - 40' Mounting or, 41' - 40' Moun	, Maximum 8' Mour , 9' - 20' Mounting F , 21' - 40' Mounting inting Height <sup>18, 18, 20</sup> , Height <sup>18, 13, 20, 21, 23, 24</sup> g Height <sup>18, 13, 20, 21, 23, 24</sup> g Height <sup>18, 13, 20, 21, 24</sup> , 24 ng Height <sup>10</sup> , <sup>10</sup> Mounting Height - 40' Mounting Height for 16' - 40' Mounting	leight 19, 19, 20, 21, 22, Height 19, 19, 20, 21, 21, 22, 26 e inge) 19, 19, 20, 21, 25, 26 e eight 19, 19, 20, 21, 25 19, 19, 20, 21, 22 19, 19, 20, 21, 23 19, 19, 20, 21, 24 ht (Wide Range) 1 Height 27	ange) <sup>18, 18, 20, 21, 25</sup>	MA1036-XX=Single MA1037-XX=2 @ 18( MA1197-XX=3 @ 12( MA1188-XX=4 @ 90) MA1189-XX=2 @ 90) MA1191-XX=2 @ 900 MA1191-XX=2 @ 120 MA1038-XX=Single MA1038-XX=3 @ 120 MA1192-XX=3 @ 120 MA1193-XX=4 @ 90) MA1193-XX=4 @ 90) FSIR-100=Wireless C GLEON-MT1=Field I GLEON-MT3=Field I GLEON-MT3=Field I GLEON-MT3=Field I GLEON-MT4=Field I GLEON-OM-EA=Ouick M GLEON-OM-EA=Ouick M	ontrol Shorting Cap totocontrol 2 Module Replacement Tenon Adapter for 2-3/8" 9" Tenon Adapter for 2-3/8" 1" Tenon Adapter for 2-3/8" 1" Tenon Adapter for 2-3/8" 1" Tenon Adapter for 2-3/8" 1" Tenon Adapter for 2-3/8" 19" Tenon Adapter for 3-1/2" 10" Tenon Adapter for 3-1/2" 10" Tenon Adapter for 3-1/2" 1" Tenon Adapter for 3-1/2" 1" Tenon Adapter for 3-1/2" 2 Tenon Adapter for 3-1/2" 3 Tenon Adapter for 3 Tenor 4 Te	(** O.D. Tenon (** O.D. Tenon O.D. Tenon O.D. Tenon O.D. Tenon (** O.D. Tenon D.D. Tenon (** O.D. Tenon (** O.D. Tenon O.D. Tenon O.D. Tenon O.D. Tenon O.D. Tenon O.D. Tenon Supancy Sensor Light Squares Light Squares D Light Squares D Light Squares D Light Squares
DesignLights Consort Standard 4000K CCT a Not compatible with e: Not compatible with e: Not compatible with est (High Leg Delta and Th May be required when Enctory installed. Maximum 8 light squ. 2.2.1s not available with Lu Extended lead times: 1.1 Amp standard. Use Extended lead times: 1.50°C lumen maintena 0. Consult factory for m Utilizes internal step-	um*Qualified. Ref. and minimum 70 CR (tended quick mour andard quick mour andard quick mour tep down transforn Wye systems. Per e Phase Corner G two or more lumin ares. h MS/X or MS/DIM (* or 120°, Referto o maWatt wireless as apply. Use dedicate ne data applies to are data applies to are formation. down transformer ry Is required to ad option. tection diameter al tection diameter al	er to www.designligh I. In arm (DMEA). tt arm (DMEA). tt arm (DM) or extend ner when combined w NEC, not for use with usires are oriented on at 347V or 460V. 2L in arm mounting require mosors. dt IES files for 3000K ( for 530mA and 700mA d when 347V or 480V is fjust parameters inclu tt arm mounting height. t 20 mounting height. 40 mounting height.	ts.org Qualified Product ed quick mount arm (Q ith MS/DIM, MS/X or D ungrounded systems, I is). a 90° or 120° drilling pa th AE-02 through AE-04 i ment table. and 6000K when perfor 2 (8% lumen loss). For 7 A when performing lay rive currents. selected. iding high and low mod	ts List under Family I MEA). IMRF. mpedance grounded ttern. Refer to arm m requires a larger hou ming layouts. These 050, use 7060 IES file outs. These files are p	Models for details. I systems or corner gr iounting requirement t sing, normally used fo files are published on is. published on the Galle	ounded systems (common lable. r AE-05 or AE-06. Extende the Galleon luminaire proc on luminaire product page		when mounting two or more



#### DESCRIPTION

The Galleon<sup>™</sup> wall and pedestrian LED luminaire's appearance is complementary with the Galleon area and site luminaire bringing a modern architectural style to lighting applications. Flexible mounting options accommodate wall surfaces, pole, and mast arm applications allowing it to be offered as a pedestrian or site lighting, solution. The Galleon family of LED products deliver exceptional performance with patented, high-efficiency AccuLED Optics™, providing uniform and energy conscious lighting for parking lots, building and security lighting applications.

#### SPECIFICATION FEATURES

#### Construction

Driver enclosure thermally isolated from optics for optimal thermal performance. Heavy wall aluminum housing die-cast with integral external heat sinks to provide superior structural rigidity and an IP66 rated housing. Overall construction passes a 1.5G vibration test to ensure mechanical integrity.

#### Optics

Choice of thirteen patented, highefficiency AccuLED Optics. The 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 and minimum 70 CRI. Optional 6000K and 3000K CCT. Greater than 90% lumen

#### maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

#### Electrical

LED drivers are mounted for ease of maintenance. 120-277V 50/60Hz, 347V or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Drivers are provided standard with 0-10V dimming. An optional Eaton proprietary surge protection module is available and designed to withstand 10kV of transient line surge. The Galleon Wall LED luminaire is suitable for operation in -30°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option.

## **McGraw-Edison**

Catalog #	Туре
Project	
Comments	Date
Prepared by	

#### Mounting

In addition to wall mounting, the innovative quick mounting arm attaches to new or existing 4-5" round or square poles with 1-1/2" to 4-7/8" drilling patterns without re-drilling. Optional mast arm adapter fits horizontal 2-3/8" tenon.

#### Finish

Housing finished in super durable 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

васквох

Five-year warranty.

BATTERY BACKUP AND THRU-WIRE

15-15/16" [388mm]-

HOOK-N-LOCK MOUNTING



## **GWC** GALLEON WALL AND PEDESTRIAN LUMINAIRE

1-2 Light Squares Solid State LED

WALL AND POLE MOUNT LUMINAIRE



6-13/64" [159mm]

1-11/16" [43mm]

2-1/2" [63mm]

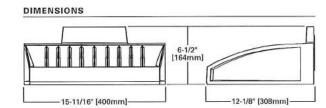
CERTIFICATION DATA UL/cUL Listed LM79 / LM80 Compliant **IP66 Housing ISO 9001** DesignLights Consortium<sup>™</sup> Qualified\*

ENERGY DATA Electronic LED Driver >0.9 Power Factor <20% Total Harmonic Distortion 120-277V/50 & 60Hz, 347V/60Hz, 480V/60Hz -30°C Minimum Temperature 40°C Ambient Temperature Rating

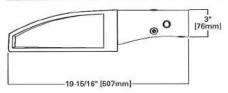
SHIPPING DATA Approximate Net Weight: 27 lbs. (12.2 kgs.)



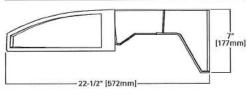


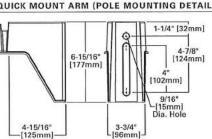


#### MAST ARM MOUNT

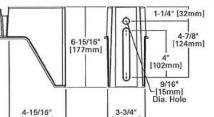


#### QUICK MOUNT ARM (OVERALL DIMENSIONS)





QUICK MOUNT ARM (POLE MOUNTING DETAILS)



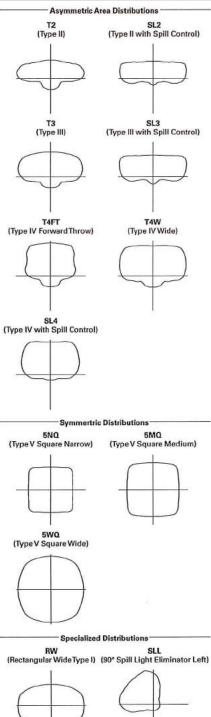


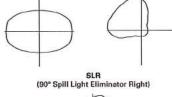
#### POWER AND LUMENS

Number o	f Light Squares		1			2	
Drive Curr	ent	530mA	700mA	1A	530mA	700mA	1A
Power (Wa	atts)	29W	39W	56W	58W	77W	112W
Input Curr	ent @ 120V (mA)	270	350	510	490	650	960
Input Curr	ent @ 208V (mA)	160	210	300	280	380	560
Input Curr	ent @ 240V (mA)	140	180	260	250	330	480
Input Curr	ent @ 277V (mA)	120	160	230	210	280	420
Power (Wa	atts)	36W	46W	68W	65W	83W	123W
Input Curr	ent @ 347V (mA)	110	140	200	190	240	360
Input Curr	ent @ 480V (mA)	320	410	580	550	700	1,040
Optics							
	Lumens	3,195	4,000	5,472	6,297	7,881	10,783
T2	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2
	Lumens	3,228	4,041	5,528	6,362	7,963	10,894
Т3	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2
	Lumens	3,237	4,051	5,543	6,378	7,983	10,922
T4FT	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2
2000	Lumens	3,190	3,992	5,462	6,285	7,867	10,763
T4W	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2
	Lumens	3,405	4,262	5,831	6,710	8,398	11,490
5MQ	BUG Rating	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2
	Lumens	3,455	4,324	5,917	6,809	8,522	11,659
5WQ	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2
	Lumens	3,319	4,154	5,684	6,540	8,186	11,200
5NQ	BUG Rating	B2-U0-G0	B2-U0-G0	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1
	Lumens	3,120	3,905	5,343	6,149	7,696	10,529
SL2	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2
2274	Lumens	3,152	3,945	5,397	6,211	7,773	10,635
SL3	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
22.20	Lumens	3,037	3,801	5,200	5,984	7,490	10,247
SL4	BUG Rating	B0-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens	2,751	3,444	4,711	5,422	6,786	9,284
SLL/SLR	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2
	Lumens	3,250	4,068	5,565	6,404	8,016	10,967
RW	BUG Rating	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3

#### GWC GALLEON WALL AND PEDESTRIAN LUMINAIRE

**OPTICAL DISTRIBUTIONS** 







Specifications and dimensions subject to change without notice.

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#### 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

TM-21 Lumen Maintenance	Theoretical L70	Ambient Temperature
(60,000 Hours)	(Hours)	0°C
> 94%	> 350,000	10°C
> 93%	> 250,000	15050
> 90%	> 170,000	25°C
	1	400.0

50°C lumen maintenance data applies to 530mA and 700mA drive currents.

> 90%

#### COLOR TEMPERATURE

LUMEN MAINTENANCE

Ambient

Temperature 25°C

40°C

50°C

Color Temperature (CCT)	Color Rendering Index (CRI)	Multiplier 0.91 1.00	
3000	70		
4000	70		
5000	70	1.03	
5700	70	1.03	

#### ORDERING INFORMATION

Product Family '	Light Engine	Number of Light Squares <sup>2</sup>	Lamp Type	Voltage	Distribution	Color	Mounting Options		
GWC=Galleon Wall	AE=1A Drive Current	01=1 02=2 3	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V 4 480=480V 4.5	T2=Type II T3=Type III T4FT=Type IV Forward Throw T4W=Type IV Wide SL2=Type II W/Spill Control SL3=Type II W/Spill Control SL4=Type IV W/Spill Control SL4=50° Spill Light Eliminator Right RW=Rectangular Wide Type I 5NQ=Type V Square Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White CC=Custom Color <sup>6</sup>	MA=2-3/8" Mast Arm <sup>7,8</sup> QM=Quick Mount Arm for Round or Square Pole <sup>7,9</sup>		
Options (Add as Suffix)					Accessories (Order Separately)				
530=Drive Current Factory Set to 530mA 700=Drive Current Factory Set to 700mA P=Button Type Photocontrol (120, 208, 240 or 277V) R=NEMA Twistlock Photocontrol Receptacle PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle 11. LCF=Light Square Trim Plate Painted to Match Housing 12. 7050=70 CRI / 5000K <sup>14</sup> 7060=70 CRI / 5000K <sup>14</sup> 7060=70 CRI / 5000K <sup>14</sup> 190=Optics Rotated 90° Left R90=Optics Rotated 90° Left R90=Optics Rotated 90° Left B90=Optics Rotated 90° Right DIMRF-LW=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height <sup>15, 14</sup> DIMRF-LW=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height <sup>15, 14</sup> DIMRF-LW=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height <sup>15, 14</sup> DIMRF-Lor-LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height <sup>15, 14</sup> DIMRF-Lor-LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height <sup>15, 14</sup> DIMRF-Lor-LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height <sup>15, 14</sup> DIMRF-Lor-LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height <sup>15, 14</sup> DIMRF-Lor-LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height <sup>15, 14</sup> DIMRF-Lor-LumaWatt Wireless Sensor, Narrow Lens for 17'. <sup>18</sup> DIMRF-Lor-LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height <sup>15, 14</sup> DIMRF-Lor-LumaWatt Wireless Sensor, Narrow Lens for 17'. <sup>18</sup> DIMRF-LOR (100, 277 or 347V. Must Specify Voltage) F=Double Fused (120, 270 or 347V. Must Specify Voltage) 10K=10kV Surge Module Dali=Dail Driver <sup>28</sup> CE=CE Marking and Small Terminal Block <sup>24</sup>		15, 16 ht <sup>15, 16</sup>	OA/RA1013=Photocontrol Shorting C: OA/RA1016=NEMA Photocontrol - Mu OA/RA1201=NEMA Photocontrol - 34; OA/RA1027=NEMA Photocontrol - 480 MA1252=10kV Circuit Module Replace FSIR-100=Wireless Configuration Tool	Iti-Tap 105-285V VV VV ment					

NOTES:

NoTES: 1. DesignLight Concortium™ Qualied. Refer to www.designlights.org Qualified Products List under Family Models for details. 2. Standard 4000K CCT and minimum 70 CRI. 3. Two light squares with BBB or CWB options uses two drivers and limited to 25°C, 120-277V only. 4. Requires the use of a step down transformer. 5. Only for use with 4800 Wey systems. Per NEC, not for use with ungrounded systems, Impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Detts, Three Phase High Leg Detta and Three Phase Corne Grounded Detta systems). 6. Custom colors are available. Stup charges sapply. Paint chip samples required. Extended Lead times apply. 7. 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. 8. Mast arm adapter fastory installed. Pole mouting bracked shipped in box. Suitable for 1.5G. Fits square and round pole up to 6° O.D. 10. Connot be used with other control options. 11. Compatible with H and with Concortions, S-PIN or 7-PIN ANSI controls. 12. Not available with H As option. Operates a single light square only. Cold weather option operates -20°C to +40°C, standard 0°C to +40°C. Backbox is non-IP rated. 13. Not available with HS option. 14. Extended lead times apply. Use dedicated IES files when performing layous. 15. LumeWatt wireless sensors are factory installed only requiring network components RF-EM-1, RF-GW-1 and RF-ROUT-1 in appropriate quantities. See www.eston.com/lighting for LumaWatt application information. 16. Bronze sensor is ahipped on the for programe selection (e.g., LB-B' mounting height). L8, L20 and L40 are available options. 17. Replace LXX with mounting height in fact for proper lens selection (e.g., LB-B' mounting height). L8, L20 and L40 are available options. 19. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and

#### Coming soon

Options (Add as Suffix)

BBB=Battery Pack with Back Box 3, 10, 12 CWB=Cold Weather Battery Pack with Back Box 3, 10, 12 UPL=Uplight Housing (Not available with Back Box) 25

Accessories (Order Separately)

MA1058XX=Thru-Branch Wiring Back Box (Must Specify Color)



#### DESCRIPTION

The patented Lumark Crosstour™ LED Wall Pack Series of luminaries provides an architectural style with super bright, energy efficient LEDs. The low-profile, rugged die-cast aluminum construction, universal back box, stainless steel hardware along with a sealed and gasketed optical compartment make the Crosstour impervious to contaminants. The Crosstour wall luminaire is ideal for wall/surface, inverted mount for façade/canopy illumination, post/bollard, site lighting, floodlight and low level pathway illumination including stairs. Typical applications include building entrances, multi-use facilities, apartment buildings, institutions, schools, stairways and loading docks test.

#### SPECIFICATION FEATURES

#### Construction

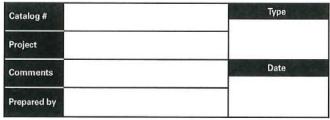
Slim, low-profile LED design with rugged one-piece, die-cast aluminum hinged removable door and back box. Matching housing styles incorporate both a small and large design. The small housing is available in 7W and 18W. The large housing is available in the 26W model. Patent pending secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes three (3) half-inch, NPT threaded conduit entry points. The universal back box supports both the small and large forms and mounts to standard 3-1/2" to 4" round and octagonal, 4" square, single gang and masonry junction boxes. Key hole gasket allows for adaptation to junction box or wall. External fin design extracts heat from the fixture surface. Onepiece silicone gasket seals door and back box. Minimum 5" wide pole for site lighting application. Not recommended for car wash applications.

#### Optical

Silicone sealed optical LED chamber incorporates a custom engineered mirrored anodized reflector providing high-efficiency illumination. Optical assembly includes impact-resistant tempered glass and meets IESNA requirements for full cutoff compliance. Solid state LED Crosstour luminaries are thermally optimized with five (5) lumen packages in cool 5000K or neutral warm 3500K LED color temperature (CCT).

#### Electrical

LED driver is mounted to the die-cast housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 7W models operate in -40°C to 40°C [-40°F to 104°F]. 18W and 26W models operate in -40°C to 40°C [-40°F to 104°F]. High ambient 50°C models available. Crosstour luminaires maintain greater than 90% of initial



light output after 72,000 hours of operation. Three (3) half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 120-277V 50/60Hz or 347V 60Hz models.

#### Finish

Crosstour is protected with a Super durable TGIC carbon bronze or summit white polyester powder coat paint. Super durable TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life.

Warranty

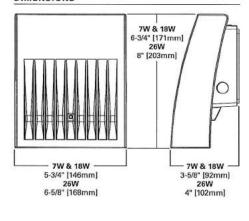
Five-year warranty.



## XTOR CROSSTOUR LED

APPLICATIONS: WALL / SURFACE POST / BOLLARD LOW LEVEL FLOODLIGHT INVERTED SITE LIGHTING

#### DIMENSIONS

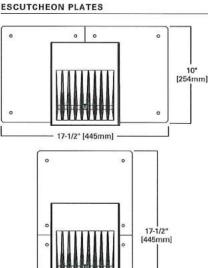


# 0 0 0 0 17-1/2" [445mm] 17-1/2" [445mm]





Lumark





XTOR1A/XT0R2A=0.34 XTOR3A=0.45

EPA

SHIPPING DATA: Approximate Net Weight: 3.7 - 5.25 lbs. [1.7 - 2.4 kgs.]

CERTIFICATION DATA UL/cUL Wet Location Listed

IP66 Ingressed Protection Rated

DesignLights Consortium® Qualified\*

External Supply Wiring 90°C Minimum

Effective Projected Area (Sq. Ft.):

LM79 / LM80 Compliant **ROHS** Compliant ADA Compliant NOM Compliant Models

Title 24 Compliant

TECHNICAL DATA 40°C Maximum Ambient Temperature

\*www.designlights.org

#### LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (Hours)	
XTOR1A Mode	əl		
25°C	> 92%	> 290,000	
40°C	> 92%	> 290,000	
50°C	> 91%	> 270,000	
XTOR2A Mode	əl		
25°C	> 91%	> 270,000	
40°C	> 90%	> 260,000	
50°C	> 88%	> 225,000	
XTOR3A Mode	el		
25°C	> 91%	> 280,000	
40°C	> 91%	> 270,000	
50°C	> 89%	> 240,000	

#### LUMENS - CRI/CCT TABLE

LED Information	XTOR1A	XTOR2A	XTOR2A-N	XTOR3A	XTOR3A-N
Delivered Lumens (Wall Mount)	722	1,633	1,523	2,804	2,284
Delivered Lumens (With Flood Accessory Kit) 1	468	1,060	978	2,168	1,738
B.U.G. Rating <sup>2</sup>	B0-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0
CCT (Kelvin)	5,000	5,000	3,500	5,000	3,500
CRI (Color Rendering Index)	65	65	70	65	70
Power Consumption (Watts)	7W	18W	18W	26W	26W

NOTES: 1 Includes shield and visor. 2 B.U.G. Rating does not apply to floodlighting.

#### CURRENT DRAW

	Model Series					
Voltage	XTOR1A	XTOR2A	XTOR3A			
120V	0.05A	0.15A	0.22A			
208V	0.03A	0.08A	0.13A			
240V	0.03A	0.07A	0.11A			
277V	0.03A	0.06A	0.10A			
347V	0.025A	0.058A	0.082A			

#### ORDERING INFORMATION

#### Sample Number: XTOR2A-N-WT-PC1

Series '	LED Kelvin Color	Housing Color	Options (Add as Suffix)	Accessories (Order Separately)
XTOR1A=Small Door, 7W XTOR2A=Small Door, 18W XTOR3A=Small Door, 26W	[Blank]=Bright White (Standard) 5000K N=Neutral Warm White, 3500K <sup>2</sup>	[Blank]=Carbon Bronze (Standard) WT=Summit White	PC1=Photocontrol 120V <sup>3</sup> PC2=Photocontrol 208-277V <sup>3,4</sup> 347V=347V <sup>5</sup> HA=50°C High Ambient <sup>6</sup>	WG/XTOR=Wire Guard * XTORFLD-KNC=Knuckle Floodlight Kit <sup>7</sup> XTORFLD-TRN=Trunnion Floodlight Kit <sup>7</sup> XTORFLD-KNC-WT=Knuckle Floodlight Kit, Summit White <sup>7</sup> XTORFLD-TRN-WT=Trunnion Floodlight Kit, Summit White <sup>7</sup> EWP/XTOR=Escutcheon Wall Plate, Carbon Bronze EWP/XTOR-WT=Escutcheon Wall Plate, Summit White

NOTES: 1 DesignLights Consortium<sup>®</sup> Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 2 XTOR1A not available in 3500K. 3 Photocontrols are factory installed. 4 Order PC2 for 347V models. 5 Thru-branch wiring not available with HA option or with 347V. 6 Wire guard for wall/surface mount. Not for use with floodlight kit accessory. 7 Floodlight kit accessory supplied with knuckle (KNC) or trunnion (TRN) base, small and large top visors and small and large impact shields.

#### STOCK ORDERING INFORMATION

7W Series	18W Series	26W Series
XTOR1A=7W, 5000K, Carbon Bronze	XTOR2A=18W, 5000K, Carbon Bronze	XTOR3A=26W, 5000K, Carbon Bronze
XTOR1A-WT=7W, 5000K, Summit White	XTOR2A-N=18W, 3500K, Carbon Bronze	XTOR3A-N=26W, 3500K, Carbon Bronze
XTOR1A-PC1=7W, 5000K, 120V PC, Carbon Bronze	XTOR2A-WT=18W, Summit White	XTOR3A-WT=26W, Summit White
	XTOR2A-PC1=18W, 120V PC, Carbon Bronze	XTOR3A-PC1=26W, 120V PC, Carbon Bronze

#### 5-DAY QUICK SHIP ORDERING INFORMATION

7W Series	18W Series	26W Series
XTOR1A-WT-PC1=7W, 5000K, Summit White, 120V PC	XTOR2A-PC2=18W, 5000K, 208-277V PC, Carbon Bronze	XTOR3A-PC2=26W, 5000K, 208-277V PC, Carbon Bronze
	XTOR2A-WT-PC1=18W, 5000K, Summit White, 120V PC	XTOR3A-WT-PC1=26W, 5000K, Summit White, 120V PC
	XTOR2A-WT-PC2=18W, 5000K, Summit White, 208-277V PC	XTOR3A-WT-PC2=26W, 5000K, Summit White, 208-277V PC
	XTOR2A-N-WT=18W, 3500K, Summit White	XTOR3A-N-WT=26W, 3500K, Summit White
	XTOR2A-N-PC1=18W, 3500K, 120V PC, Carbon Bronze	XTOR3A-N-PC1=26W, 3500K, 120V PC, Carbon Bronze
	XTOR2A-N-PC2=18W, 3500K, 208-277V PC, Carbon Bronze	XTOR3A-N-PC2=26W, 3500K, 208-277V PC, Carbon Bronze
	XTOR2A-N-WHT-PC1=18W, 3500K, Summit White, 120V PC	XTOR3A-N-WHT-PC1=26W, 3500K, Summit White, 120V PC
	XTOR2A-N-WT-PC2=18W, 3500K, Summit White, 208-277V PC	XTOR3A-N-WT-PC2=26W, 3500K, Summit White, 208-277V PC



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

0269 Specifications and dimensions subject to ting change without notice.



ARCHITECTS PRESERVATION CONSULTANTS GRANT ADMINISTRATORS

1100 Rhode Island Street Lawrence, KS 66044

May 20, 2016

City of Chesterfield Planning and Development Services Division 690 Chesterfield Pkwy W Chesterfield, MO 63017-0670

Project: Beyond Self Storage at Chesterfield Location: 17481 North Outer 40 Road

## ARCHITECT'S STATEMENT

The following statements address how each item in "Article 04: Development Requirements and Design Standards, Sec. 31-04-01 Architectural review design standards" has been addressed.

- C) General requirements for site design.
  - 1) Site relationships:
    - a) This is a single phase project.
    - b) The south (front) facade of the building is aligned almost exactly with the south (front) facade of the building on the lot directly west of the project site (Metro Lighting).
    - c) Similar to that building, there is a drive across the front of the property and a single row of parking facing away from the building, and there is a larger parking area on the north side between the building and the Missouri River levee.
    - d) There is a 30' wide landscape buffer strip along the front of the property that provides a transition from the street to the building.
  - 2) Circulation system and access
    - a) The proposed project is a self-storage facility, and this use is typically accessed by vehicular traffic transporting personal belongings.
    - b) When a new renter comes to the site, they will proceed to the management office at the southwest corner of the building, where they can meet with management staff, or if after regular business hours, they can rent a unit from a self-service kiosk in the entrance vestibule. Parking for the management office is located directly across the drive aisle along the front of the property.
    - c) If a renter has an outside access unit along the east or north side of the building, or if they have one of the outside storage spaces north of the building, they will proceed to their unit/space by going through the pass-code controlled gate at the south end of the drive along the east side of the building.
    - d) If a renter has an inside access unit, they will drive into the through-building drive at the glass overhead door located in the south façade adjacent to the management office. There are hallways to access interior units on the first story, and there are two elevators and hallways to access interior units on the second and third story. When leaving, they will continue straight through the building, exiting at the overhead door

in the north façade, and proceed to the east drive where they will leave through the pass-controlled gate at the southeast corner of the building.

- 3) Topography
  - a) There is very little topographic change on the site, approximately 3' of grade change down from the north property line to south property line. Landscaping elements will be used for screening, buffering, and transitions.
  - b) The middle area of the site is low and will be filled to raise the finished floor elevation to nearly match the finished floor elevation of the building directly adjacent to the west (Metro Lighting). The paved areas will be raised and graded to slope appropriately to on-site storm inlets and then to the on-site "water quality BMP" areas.
  - c) Cut and fill areas will be graded and rounded both horizontally and vertically.
- 4) No retaining walls are proposed for the project.
- D) General requirements for building design.
  - 1) Scale
    - a) Building Scale: This is a three story building with a single slope roof to the north and parapet walls on the west, south, and east sides. The top of the parapet walls are mostly 39' above the finished floor; the parapet at the southwest corner management office area is 44'. The adjacent building directly west (Metro Lighting) is a single story with a parapet height of approximately 24', except at the front south centered entrance, which is approximately 30' tall. Provided with this submittal are renderings of the proposed building placed into photos of the site. These demonstrate that, while this building is taller than its direct westerly neighbor, it is compatible with it by incorporating at stepped parapet that accentuates the primary building entrance.
    - b) Human Scale: A horizontal brick wainscot is incorporated along the south (front) façade where pedestrians will park and approach the office entrance. This helps create a sense of human scale for the primary pedestrian area of the site.
    - c) Generic Scale: The adjacent building directly west has a mostly horizontal emphasis in design features, with a vertical emphasis at the southeast and southwest corners, and at the centered south entrance. Our proposed building also has a horizontal emphasis in design features, with a brick wainscot across the front, and two horizontal trim bands, the higher of which is approximately the same height as the adjacent building's parapet top. We have also incorporated vertical emphasis at the building corners and the primary entrance with brick detailing, and at points along the building's façade using contrasting trim and wall panel materials.
  - 2) Design
    - a) All four facades of the building are coordinated with similar colors, materials, and patterning. The north façade, facing the levee, is not as articulated as the other three primary facades, but it does continue the horizontal banding.
    - b) The front, streetscape façade, is asymmetrically designed, and utilizes horizontal and vertical elements to create a rhythm and pattern that highlights the primary building entrance.
    - c) The building is not using a corporate or franchise design.
    - d) Brick is utilized low along the street facing façade to add a pedestrian oriented building detail.
    - e) The southwest corner is designed as an artistic feature of the building. It incorporates large glass storefront on two sides with brick corner columns and parapet. It

references the taller glass portion of the building east of the site (Heavy Duty Equipment) and the rounded glass-tile corner of adjacent the adjacent building to the west (Metro Lighting). On the front (south) side of the building will be the "Beyond Self Storage of Chesterfield" sign, which incorporates a stylized box logo with an orange highlight. While acting as a business identification sign, it also provides an artistic element to the elevation and will be an internally illuminated sign. It's specific design and approval will be reviewed through a separate process as required by the UDC.

- f) The building utilizes a very efficient insulated wall panel system. The glass overhead doors at the drive-through bay will allow natural light into the primary loading/unloading area.
- g) The structural system for the building is specifically designed to reduce the amount of steel required. There are few structural spans over 10' in length, and the load-bearing stacked wall system maximizes the structural efficiency of the steel and concrete floor system.
- h) Entry to the building primarily occurs in a vehicle. The overhead doors will be operated by control pads; drivers do not have to exit their vehicles to access the control pads. The main entrance storefront to the office area is slightly recessed from the surrounding brick.
- i) There are no temporary walls included in the project.
- j) There will be no rooftop equipment on the building; ground mount HVAC units on the west side of the building will be screened with landscaping. The parapet walls on the west, south, and east create a unified visual building height by concealing the .25":12: single sloped roof (low eave on north side). The taller parapet at the southwest corner identifies the office area and new-customer entrance. The parapets are an integral part of the architectural design.
- 3) The colors used on the building consist of three grey tones, brick, and glass. The body of the building is a medium grey tone, similar to the body of the adjacent building to the west (Metro Lighting). The lighter grey trim color is similar to the color of entrance surround feature of that building. The brick color is similar to the building further east of the site (Heavy Duty Equipment). The storefront color, and use of large glass areas around the entry, is similar to that building.
- 4) Landscaping design and screening
  - a) A combination of trees and shrubs are used along the west, south, and east sides of the building to provide buffering between the building and the street and between the drives and the building. As the four deciduous trees on the east, four on the west, and 10 along the front mature, the building will be surrounded by a canopy of green for eight months out of the year. Plantings along the building foundation on the front, help soften the transition from driveway to building.
  - b) A security fence will be used along the east, north, and northwest portions of the site to enclose the north parking area and east driveway area. This will be a 6' tall chainlink fence with black mesh screening.
  - c) A dumpster will be located northeast of the building and screened with a 6' tall metal panel fence that matches the finish of the medium gray smooth metal panel on the building, and which has a black steel picket gate that matches the driveway entrance gate.
- 5) Signage: Signs will adhere to the Unified Development Code.

- 6) Lighting: Site and building lighting will adhere to the UDC.
- E) Specific requirements for the Chesterfield Valley
  - 1) Facades
    - a) Architectural elements from the front façade are utilized on the sides and rear.
    - b) Accent lighting is utilized for the building.
    - c) The dumpster will be screened with a 6' tall metal fence that matches the building.
  - 2) Storage
    - a) Outdoor storage on the north side of the building is screened from I-64 by the building itself.
  - 3) Utilities
    - a) All utilities will be underground.
  - 4) Parking
    - a) Parking is located primarily on the north side of the building, away from I-64. Some parking is located along North Outer 40, similar to other buildings in the direct vicinity.
    - b) All loading areas are either within the building, or behind the security fence enclosing the east and north portion of the site.



LOWER PARAPET 39'-0" ROOF-LOW EAVE 34'-0" 8 THIRD STORY 25'-0" 4 SECOND STORY 16'-0" FIRST STORY 0" UPPER PARAPET 39'-0"	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 9. 20.	MATERIA NOTES AND EXTERCION LEXISTER MERIA DOCE MY VEW GLASS. EXTERIOR PROLE. 42" WIDE INSLATED AROHTECTURAL META, PWEL, GRAV. INTECOMPATING, ICAR ALMINI, LIGH CRAV. EXTERIOR UNIT FOOR, B'-B''' & G'-B'' INSLATED COLING DOCE, DARK GRAV. EXTERIOR DOVE-THEU DOCE, GLARA ALMINI, LIGH CRAV. EXTERIOR DOVE-THEU DOCE, GLARA ALMINI, LIGH CRAV. EXTERIOR DOVE-THEU DOCE, CLARA ALMINI, LIGH CRAV. EXTERIOR DOVE, THEU DOCE, CLARA ALMINI, LIGH CRAV. EXTERIOR DOCE, LIGHT, CLARA CRAV, CLARA ALMINI, LIGH CRAV. EXTERIOR DOCE, EXTERIOR GLARA DARK GRAV. EXTERIOR DOCE, EXTERIOR GLARA DARK GRAV. EXTERIOR DOCE, EXTERIOR GLARA ALMONI, DOCE, CLARA ALMINI, LIGH CRAV. HINGL, DARKE, SCIENCE, MAI, ALMIN, CRAV. HINGL, DARKE, SCIENCE, ALMIN, ALMIN, CRAV. HINGL, DARKE, SCIENCE, MAI, ALMIN, ALMIN, CRAV. HINGL, DARKE, SCIENCE, MAI, MAI, MAI, CRAV. HINGL, DARKE, SCIENCE, MAI, MAI, ALMIN, CRAV. HINGL, DARKE, SCIENCE, MAI, ALMIN, ALMIN, CRAV. HINGL, DARKE, SCIENCE, MAI, MAI, MAI, CRAV. HINGL, DARKE, SCIENCE, MAI, MAI, ALMIN, CRAV, MAI, ALMIN, CRAV, ALMIN, ALMIN, CRAVE, MAI, AND ALMIN, A	BEYOND SELF STORAGE AT CHESTERFIELD	NORTH TERFIELD	
ROOF-LOW EAVE 34' - 0"			ARCHIT PRESER GRANT	ADMINISTRATORS	
			FAX		
			A	104	



BEYOND SELF STORAGE AT CHESTERFIELD	17481 NORTH OUTER 40 RD CHESTERFIELD, MO	
ARCHITE PRESERV GRANT A FAX EXTERIOR Date: 0 Drawn by : Checked by Revisions :	220 Massachusetts Lawrence, Kansas 66044 785 - 749 - 5806 785 - 749 - 1515 ELEVATIONS	

MATERIAL NOTES AIO2



Consulting Engineers, Inc.

Dated: April 29, 2016

### Via Hand Delivered

City of Chesterfield 690 Chesterfield Parkway W Chesterfield, MO 63017-0760

Attention: Ms. Aimee Nassif, Planning and Development Services Director

Re: Parking Demand Study associated with Beyond Self Storage at Chesterfield; Amended Site Development Concept and Section Plans, 17481 North Outer 40 Road, Ordinance #2411 (Stock Project No. 216-5757.1)

Dear Ms. Nassif :

This firm is the professional licensed civil engineering firm that has been engaged to prepare and process the Site Development Section Plan and Amended Site Development Concept Plan for a project titled "North Outer Forty Road – Beyond Self Storage – Chesterfield. Included in that engagement are the preparation and submission of this Application and a Parking Demand Study.

Parking requirements are contained in Section 31-04-04.H of the City of Chesterfield Unified Development Code. Under the provisions of the Parking Section, Self Storage is broken down into ranges, minimum parking requirements of 1 spaces/1,000 s.f., and a maximum of 1.2 spaces/1,000 s.f. (gross building), respectively. This would require over 100 parking spaces for this proposed facility.

The 4<sup>th</sup> Addition of the Institute of Transportation Engineers has a category for Land Use: 151 "Mini-Warehouse". Attached are a Weekday and Saturday Study which put Parking Demand at .14 Vehicles and .11 Vehicles per 1,000 sq. ft. GFA. This ratio is consistent with our project. Enclosures include the ITE Information.

In reality, the parking needs of a self-storage facility are incredibly minimal. A study of self-storage facility traffic and parking needs was completed by Aurecon, a leading traffic management firm. Their study focused on facilities in Australia, but it is representative of the needs in the US as well. Below is a table of recommended parking counts established by the report (adapted with imperial units).

257 CHESTERFIELD BUSINESS PARKWAY •ST. LOUIS, MO 63005 •(636) 530-9100 Fax (636) 530-9130 • E-MAIL ADDRESS: general@stockassoc.com

### April 28, 2016 CITY OF CHESTERFIELD Page 2 of 3

The entire report can be found here:

https://www.selfstorage.org.au/sites/default/files/user-content/ssaa\_report - traffic and parking study.pdf

Rentable SF	Office & Retail	Storage Area	Staff	Trailer	TOTAL
0-32,500	1	2	2	1	6
32,500 - 65,000	2	5	2	1	10
65,000 - 102,000	3	5	2	1	11

For comparison purposes, the proposed facility will have approximately 108,900 GSF. . The current plan includes 22 surface parking spaces along the South and 4 interior loading/unloading spaces on the East side of the building. Therefore, the proposed facility would include 236% of the parking counts recommended by the Aurecon report.

We are confident that the 4-5 interior loading areas are more than adequate to serve existing customers at 100% occupancy. To further understand the needs of retail and office parking, we analyzed data for a comparable facility that was provided by our self-storage consultant, who has 31 years of experience operating self-storage facilities. For a comparably sized building in the Boston area, the facility saw the following visits in 2015:

Retail visitors: 2.1 per day

New customer visits: 3.1 per day

## Total: 5.2 visitors per day to the office area

Given that information, we are obviously more than comfortable with the 22 provided surface parking spaces.

We understand that a project for Simply Storage at 1755 Chesterfield Airport Road was approved in 2007. As part of their review and approval, the parking was addressed. They provided five (5) spaces for the 91,120 s.f. of storage space. This information was supported by information provided by the Self Storage Association. The Simply Self Storage Site Development Plan is recorded in Plat Book 355, Pages 903-906 on 2/14/07. That project was governed by Ordinance #2379.

Based on the above information, we respectfully request the City consider this project be parked at the rate of 0.20 spaces/1,000 s.f. (gross building), which would satisfy the Owner's parking needs as previously described.

April 28, 2016 CITY OF CHESTERFIELD Page 3 of 3

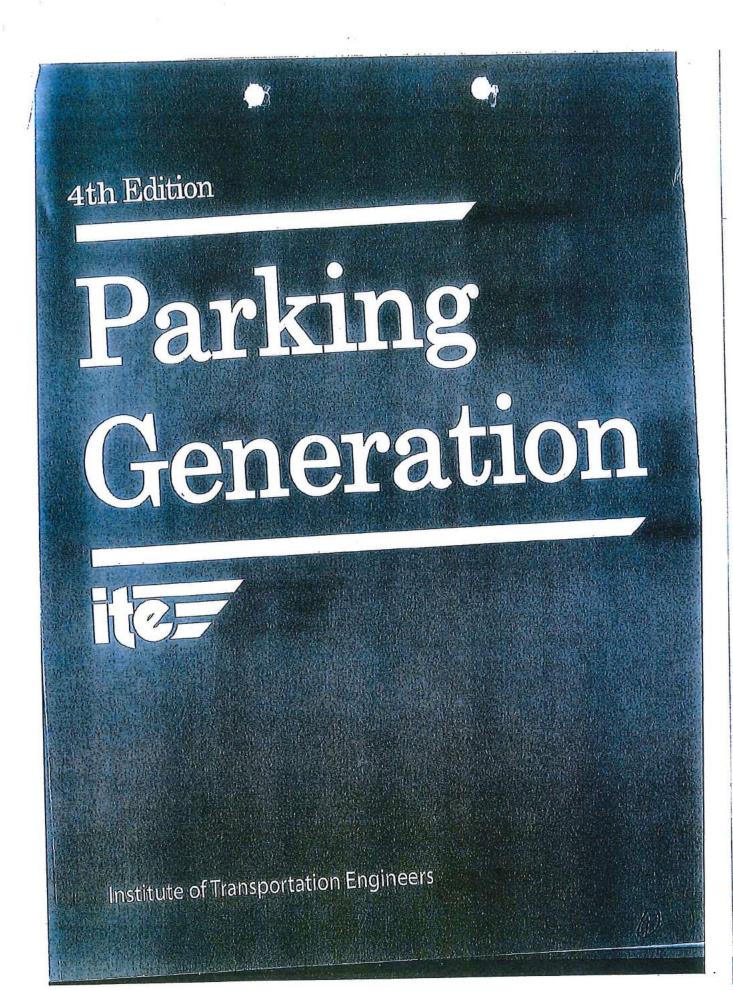
As always, we greatly appreciate your cooperation.

Sincerely,

George M. Stock, P.E., President STOCK STOCK STOCK STOCK STOCK PB-25116 STOCK STOCK

CC: Mr. Ben Hagedorn – NorthPoint Development - via email Mr. Chuck Hulse, P.E. – Senior Project Manager – Stock & Associates

Enclosure: ITE information



## Land Use: 151 Mini-Warehouse

### Description

Mini-warehouses are buildings in which a number of storage units or vaults are rented for the storage of goods. They are typically referred to as "self-storage" facilities. Each unit is physically separated from other units, and access is usually provided through an overhead door or other common access point.

## **Database Description**

 Average parking supply ratio: 0.2 spaces per 1,000 square feet (sq. ft.) gross floor area (GFA) (two study sites).

The Saturday parking demand ratio for a site with 1,400 storage units was 0.77 vehicles per 100 storage units. Parking demand data at this site were collected for six consecutive hours between 1:00 and 7:00 p.m., and the peak period of demand occurred between 4:00 and 5:00 p.m.

The following table presents a time-of-day distribution of parking demand for three study sites.

Based on Vehicles per 1,000 sq. ft. GFA	Weekday			
Hour Beginning	Percent of Peak Period	Number of Data Points*		
12:00-4:00 a.m.	-	0		
	-	0		
5:00 a.m.		0		
6:00 a.m.	31	3		
7:00 a.m.	24	3		
8:00 a.m.	59	3		
9:00 a.m.	91	3.		
10:00 a.m.	100	3		
11:00 a.m.		3		
12:00 p.m.	55	3		
1:00 p.m.	45			
2:00 p.m.	46	3		
3:00 p.m.	40	2		
4:00 p.m.	. 88	1		
5:00 p.m.	27	1		
6:00 p.m.	35	1		
7:00 p.m.	27	1		
8:00 p.m.	_	0		
9:00 p.m.	-	0		
	-	0		
10:00 p.m. 11:00 p.m.		0		

\* Subset of database

### Study Sites/Years

Canada: Burnaby, BC (1991); Coquillam, BC (1991); Richmond, BC (1991)

United States: Santa Barbara, CA (1998); Hadley, MA (2008)

## 4<sup>th</sup> Edition Source Number

1115

Institute of Transportation Engineers

[ 43 ]

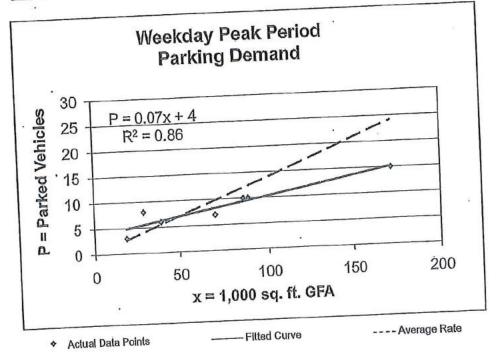
## Land Use: 151 Mini-Warehouse

1

1

## Average Peak Period Parking Demand vs. 1,000 sq. ft. GFA On a: Weekday

	Peak Period Demand
Statistic	10:00 a.m12:00 p.m.; 4:00-5:00 p.m.
Peak Period	1
Number of Study Sites	72,000 sq. ft. GFA
Average Size of Study Siles	0.14 vehicles per 1,000 sq. ft. GFA
Average Peak Period Parking Demand	0.06
Standard Deviation	44%
Coefficient of Variation	0.09-0.27 vehicles per 1,000 sq. ft. GFA
Range	0 17 vahioles per 1,000 SQ. II. OFA
85th Percentile	0.11 vehicles per 1,000 sq. ft. GFA
33rd Percentile	



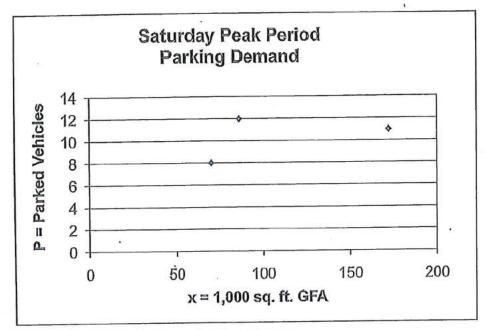
[44] Parking Generation, 4th Edition

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## ∤ and Use: 151 Muni-Warehouse

# Average Peak Period Parking Demand vs. 1,000 sq. ft. GFA

Statistic	Peak Period Demand
Peak Period	9:00–10:00 a.m.
Number of Study Sites	3
Average Size of Study Sites	109,000 sq. ft. GFA
Average Peak Period Parking Demand	0.11 vehicles per 1,000 sq. ft. GFA
Standard Deviation	0.04
Coefficient of Variation	36%
Range	0.06-0.14 vehicles per 1,000 sq. ft. GFA
85th Percentile	0.13 vehicles per 1,000 sq. ft. GFA
33rd Percentile	0.10 vehicles per 1,000 sq. ft. GFA



♦ Actual Data Points

[45]

Institute of Transportation Engineers