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Planning Commission Staff Report

Project Type: Site Development Plan

Meeting Date: December 14, 2015

From: Purvi Patel

Project Planner

Location: 16300 Justus Post Road

Applicant: Stock & Associates Consulting Engineers, Inc.

Description: Chesterfield Village Mall (The Grove in Chesterfield) SDP: A Site

Development Plan, Landscape Plan, Tree Preservation Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 3.64 acre tract of land zoned "UC" Urban Core District located southeast of the

intersection of Chesterfield Parkway West and Justus Post Road.

PROPOSAL SUMMARY

Stock and Associates Consulting Engineers, Inc., on behalf of Brinkmann Holdings, LLC., has submitted a request for construction of a three (3) story 82,300 square foot assisted living and memory support senior care facility with 96 beds. The 3.64 acre site is located within the Southwest Quadrant of Chesterfield Village at the intersection of Chesterfield Parkway West and Justus Post Road. It is zoned "UC" Urban Core District and is governed under the terms and conditions of City of Chesterfield Ordinance 2861. The exterior building materials will be comprised of stone veneer, pre-finished lap siding, cedar shake siding, cementitious trim boards, and asphalt roof shingles.

HISTORY OF SUBJECT SITE

This site is located within the Southwest Quadrant of the Chesterfield Village, specifically parcel C104. The Southwest Quadrant of Olive/Clarkson and I-64 was included in the original presentation to the St. Louis County Planning Commission in 1971 to initiate development of Chesterfield Village. Parcel C104 is located within the Regional Commercial/Town Center which permitted C1 through C7 land uses. Two (2) office buildings were previously located on the subject parcels and later were demolished in 2005.

On August 3, 2015, City of Chesterfield Ordinance 2861 approved the rezoning of this parcel from "C8" Planned Commercial to the "UC" Urban Core District. Ordinance 2861 permits an assisted living care facility which is the proposed land use. The subject site is currently vacant.

Land Use and Zoning of Surrounding Properties

Direction	Land Use	Zoning		
North	Restaurant	"C8" Planned Commercial District		
South	Residential	"R6/PEU" Residence District with Planne		
		Environment Unit Procedure		
East	Commercial Office Space	"C8" Planned Commercial District		
West	Residential	"R6/PEU" Residence District with Planned		
		Environment Unit Procedure		



Figure 1: Aerial

Comprehensive Plan Analysis

The subject site is located within the Urban Core district. The Urban Core area is defined within the Comprehensive Plan as "the area known as the Chesterfield Village, centered at the intersection of I-64/US 40 and Clarkson Road/Olive Boulevard and primarily served by the Chesterfield Parkway. Land uses for the Urban Core include a mixture of high-density residential, retail and office uses containing the highest density development in the City of Chesterfield." This area also serves as the visual and physical focus of the City. The use proposed associated with this request is compliant with the Urban Core land use designation.

In addition to compliance of uses, a proposed development should be in compliance with the applicable Development Policies of the Urban Core land use as well as Commercial Development Policies listed in the Comprehensive Plan. On the following page is a list of relevant policies within the Comprehensive Plan.

- 3.1.1 Quality of Design Overall design standards should be provided for smaller-scale, mixed-use, project-oriented developments. Developments should emphasize architectural design, pedestrian circulation, landscaping, open space, innovative parking solutions and landscape buffering between any adjacent residential uses.
 - This policy is met by this proposed development. Please see Access and Site Circulation, Parking, Landscaping, Open Space, and Architectural Elevations sections starting on Page 4. These sections discuss each of these items in detail, as they apply to this project.
- 3.1.2 Buffering of Neighborhoods Development should substantially buffer neighboring residential uses in all directions by employing good site design, addressing vehicular access, building materials selection, tree preservation, and expanded setbacks.
 - There is an existing berm between the proposed development and the Sycamore subdivision to the south. The applicant will maintain and improve this berm as required by the site specific ordinance. Additionally, the berm is planned to be heavily planted and enhanced to screen residences to the south. This item is further discussed in detail under the Landscaping section of this report.
- 3.6.1 High Density Development High-density development should be developed as part
 of the Urban Core. High-density development encourages clustering of buildings with
 diverse building form through minimum restrictions for building height, openspace and
 setback requirements.
 - As discussed earlier, the Urban Core is the center of the City. City centers typically are their downtowns which offer many mixed uses, especially high density developments. The proposed development at 85,000 square feet and 3 stories is towards the maximum Floor Area allowed within the Urban Core District and would be compliant.
- 3.6.6 Multi-modal Transportation Choices Developments in the Urban Core should be designed to accommodate a variety of motorized and non-motorized transportation choices such as mass transit, pedestrian, and vehicular. An emphasis on pedestrian connectivity is encouraged.
 - This policy is met by this proposed development. Please see the Access and Site Circulation section on Page 4 for a detailed discussion.

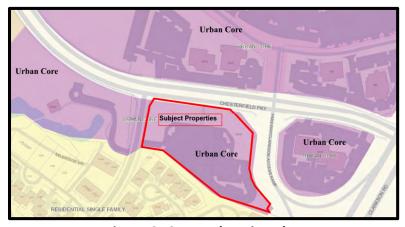


Figure 2: Comprehensive Plan

STAFF ANALYSIS

Access and Site Circulation

Proposed access to the site will be via an existing entrance point off Justus Post Road. This existing access point will be improved to accommodate the proposed development. No other vehicular access to the site is proposed by the applicants nor permitted by the site's ordinance.

The existing sidewalks on Chesterfield Airport Road and Justus Post Road will remain in place and the applicant will tie into these sidewalks to provide a connection throughout site. Additionally, the proposed Site Development Plan shows a bike rack to encourage bicycle use and provides a bus shelter off Chesterfield Parkway for the existing bus stop. The applicant will be working with St. Louis-Metro Transit as this process moves forward on the exact appearance and placement of this shelter. As discussed previously in the Comprehensive Plan Analysis section, developments in the Urban Core should be designed to accommodate of multi-modes of transportation. Additionally, the inclusion of multi-modes of transportation is a site design feature encouraged in the Urban Code zoning district of the Unified Development Code (UDC).

Parking

Parking will be south of the structure. The minimum parking requirement for the nursing home use is 1 space for every 3 beds, which is equal to 32 spaces for the proposed 96 beds in this development. The applicant is proposing 57 total spaces, including 4 accessible spaces. In addition, there are four (4) loading spaces provided as required by code, east of the building.



Figure 3: Colored Site Plan

Landscaping and Tree Preservation

A combination of deciduous trees, coniferous trees and shrubs/bushes have been utilized throughout the exterior of the site in addition to landscaping planned to be retained. The stormwater bio-retention of the site is planned to be landscaped per MSD requirements, which will add to the overall landscaping of this project.

The site shares an existing landscape berm to the south with the adjacent residential subdivision (Sycamore subdivision) which provided screening from the previously existing office buildings. As required by Ordinance 2861, the applicant will be heavily planting this berm to screen this development from the residents to the south.

A proposed trash dumpster and generator planned with this construction on the southeast portion of the facility will be enclosed by a screening wall. The enclosure will match the material and color of the proposed main structure. In addition to the screening wall, the applicant will provide arborvitaes around these enclosures.

The applicant is proposing to remove existing ash trees on-site due to the recent identification of the Emerald Ash Bore in the area. Per the Missouri Department of Conservation, the insect has been identified in St. Louis County as of September 15, 2015. Based upon this discovery, the applicant is proposing to remove all 21 ash trees located on-site. Per the City Code, due to the infestation of the Emerald Ash Bore and recommendation of the City Arborist, the Planning and Development Services Director approved the removal of all 21 of these trees on November 12, 2015.

As required by the modification process, the applicant has submitted a Mitigation Plan which is under review by Staff. In this case, the developer was only able to preserve 13.37% of the existing canopy and is therefore required to plant an additional 3,521 square feet of new tree canopy. Once a Landscape Plan is approved by the Planning Commission, Staff will then complete its review of the Mitigation Plan. The proposed mitigation trees will be provided along the southern edge of the site, in turn increasing the buffer between the subject site and residential development.

Open Space

The minimum open space requirement for the Urban Core District is 30% and the regulations also require the open space be integrated into the development to provide aesthetic, recreational, or other public benefit. The applicant is proposing 59.07% open space which is dispersed throughout the site. To take advantage of the increased open space, the applicant has provided several seating areas for the enjoyment of the patrons of the site.

The proposal also includes a public art installation near the intersection of Justus Post Road and Chesterfield Parkway. The type of installation will be determined prior to the issuance of building permits, after both the Planning and Development Services and Parks, Recreation and Arts divisions has reviewed and approved the art piece.

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Architectural Elevations

The three (3) story structure design employs a slight curve to the site, with the building utilizing many residential features to integrate the structure into the area, which has residential homes to the south and west. Residential features include a pitched roof, cornices, and use of similar materials of adjacent residential developments. Materials for the structure include a stone veneer wainscoting at the base of the structure, lap siding, and shake siding seen in adjacent residential developments. These materials are wrapped on all sides of the structure to provide a cohesive building. Colors include different shades of grays which mimic some of the residential structures in the adjacent area. Colors, architectural features and materials are used consistently on all side of the proposed structure, which is recommended by the City architectural standards. The material and color samples for the proposed building will be presented at the Planning Commission meeting.

Other architectural technique used are the connectors which assist in breaking the size of the building to mimic residential units. All mechanical units are planned to be roof mounted and screened by the pitched roofs and parapet walls.



Figure 4: North Elevation



Figure 5: South Elevation

The project was reviewed by the Architectural Review Board (ARB) on October 8, 2015. A motion to forward the submittal to the Planning Commission with a recommendation for approval with the conditions listed below was passed by a vote of 4-0.

- 1. Staff to work with the applicant to increase the landscaping with different shrubs and trees to the north elevation to help break up the front façade.
 - In response to this recommendation, the applicant has provided over one hundred and fifty (150) shrubs along the northern façade of the building; in addition has added shrubs along the southern façade as well. These shrubs will range from eighteen (18) inches to thirty-six (36) inches. They have also provided fourteen (14) additional trees along the northern edge and also increased the buffer plantings along Chesterfield Airport Road since the ARB meeting.
- 2. Ensure that adequate screening is provided to the generator to the height of the equipment.

The applicant has verified that the generator will be screened by the proposed six (6) foot tall screening wall. Additionally, a note has been added to the detail section of the wall to ensure the enclosure height will be at least twenty-four (24) inches taller than the specified generator, but the overall height of the enclosure will not exceed six (6) feet.

Lighting

The proposed Lighting Plan shows several parking area fixtures and wall mounted fixtures. The applicant is proposing fully enclosed LED fixtures mounted at twenty (20) feet in the parking area. And the wall mounted fixtures are LED fixtures as well. Both fixtures can be seen in the images below. The Lighting Plan does meet code requirements without over lighting the site and creating light trespass to the adjacent residential properties.



Figure 6: Wall Mounted Fixture



Figure 7: Parking Area Fixture

STAFF RECOMMENDATION

Staff has reviewed the Site Development Plan, Landscape Plan, Tree Preservation Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design and has found the proposal to be in compliance with the site specific ordinance, Comprehensive Plan, and all City Code requirements. Staff recommends approval of the proposed development of Chesterfield Village Mall (The Grove in Chesterfield).

MOTION

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

- 1) "I move to approve (or deny) the Site Development Plan, Landscape Plan, Tree Preservation Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Chesterfield Village Mall (The Grove in Chesterfield).
- 2) "I move to approve the Site Development Plan, Landscape Plan, Tree Preservation Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Chesterfield Village Mall (The Grove in Chesterfield), with the following conditions..." (Conditions may be added, eliminated, altered or modified)

Attachments: Site Development Plan

Landscape Plan

Tree Preservation Plan

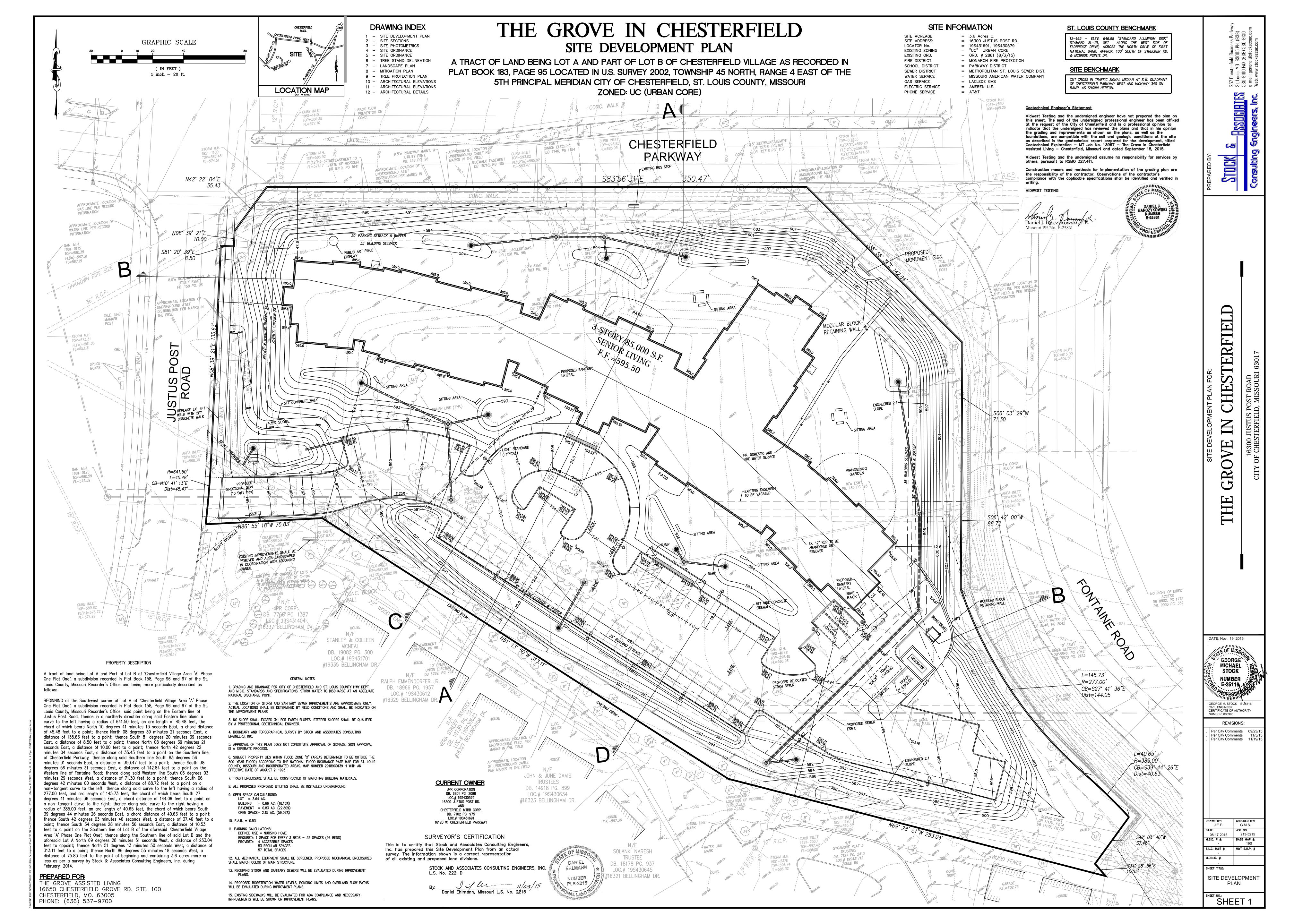
Lighting Plan
Lighting Cut-sheets

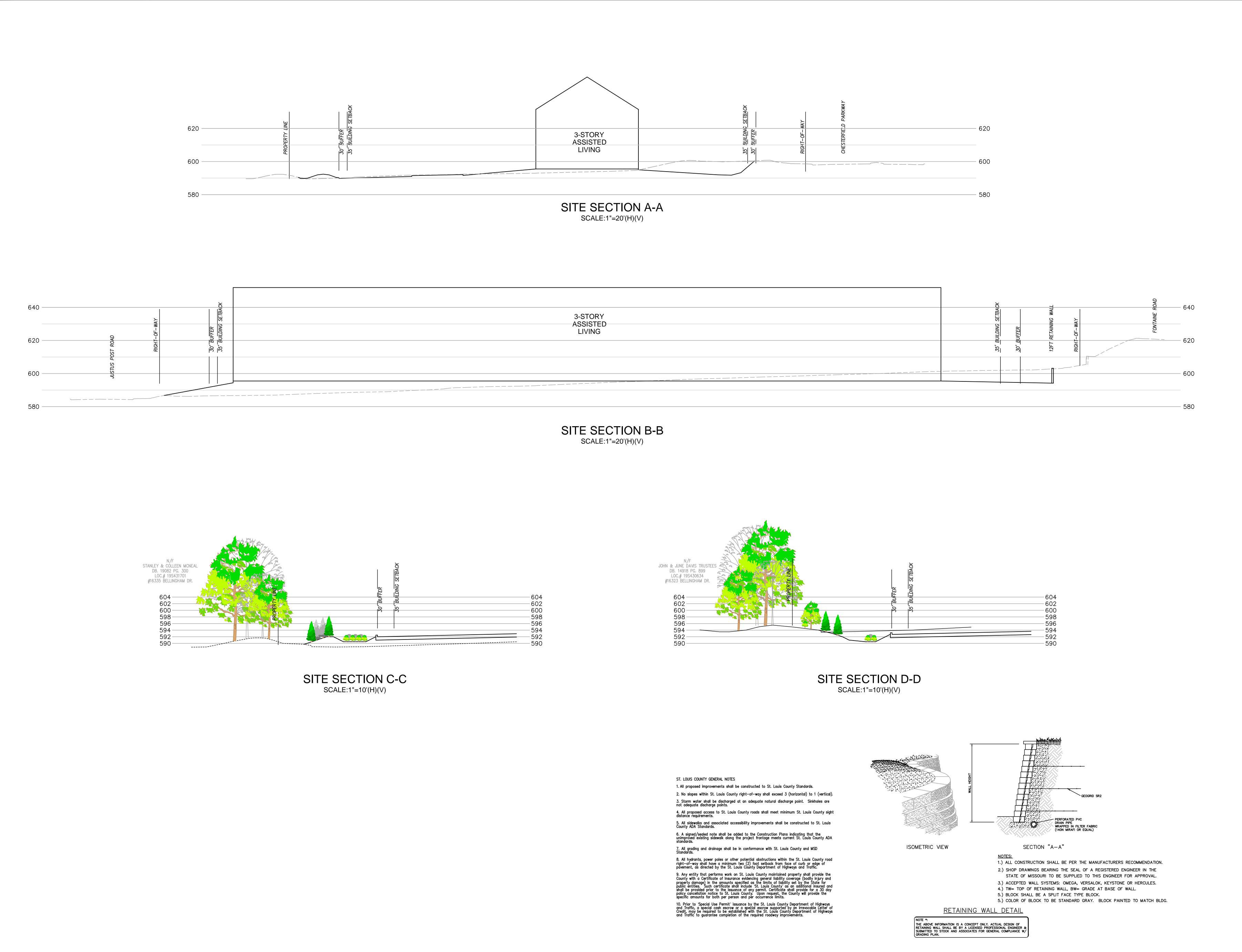
Architect's Statement of Design

Architectural Elevations Architectural Rendering

CC: Aimee Nassif, Planning and Development Services Director

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DATE: Nov. 19, 2015

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

REVISIONS:

. Per City Comments 09/23/15
. Per City Comments 11/5/15
. Per City Comments 11/19/15

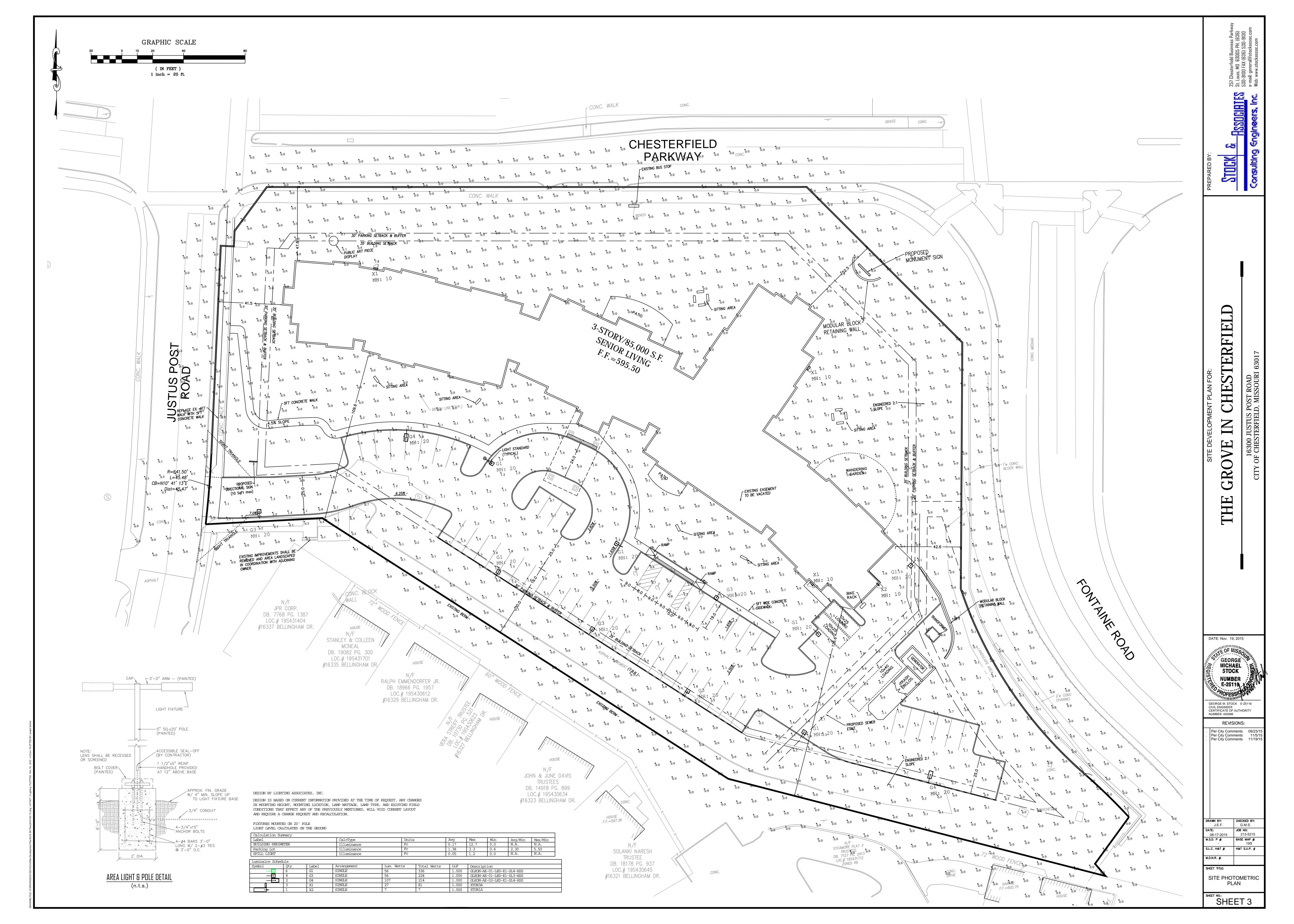
DRAWN BY: CHECKED BY:
J.E.F. G.M.S. JOB NO: 08-17-2015 213-5215 M.S.D. P #: BASE MAP #: S.L.C. H&T #: H&T S.U.P. #

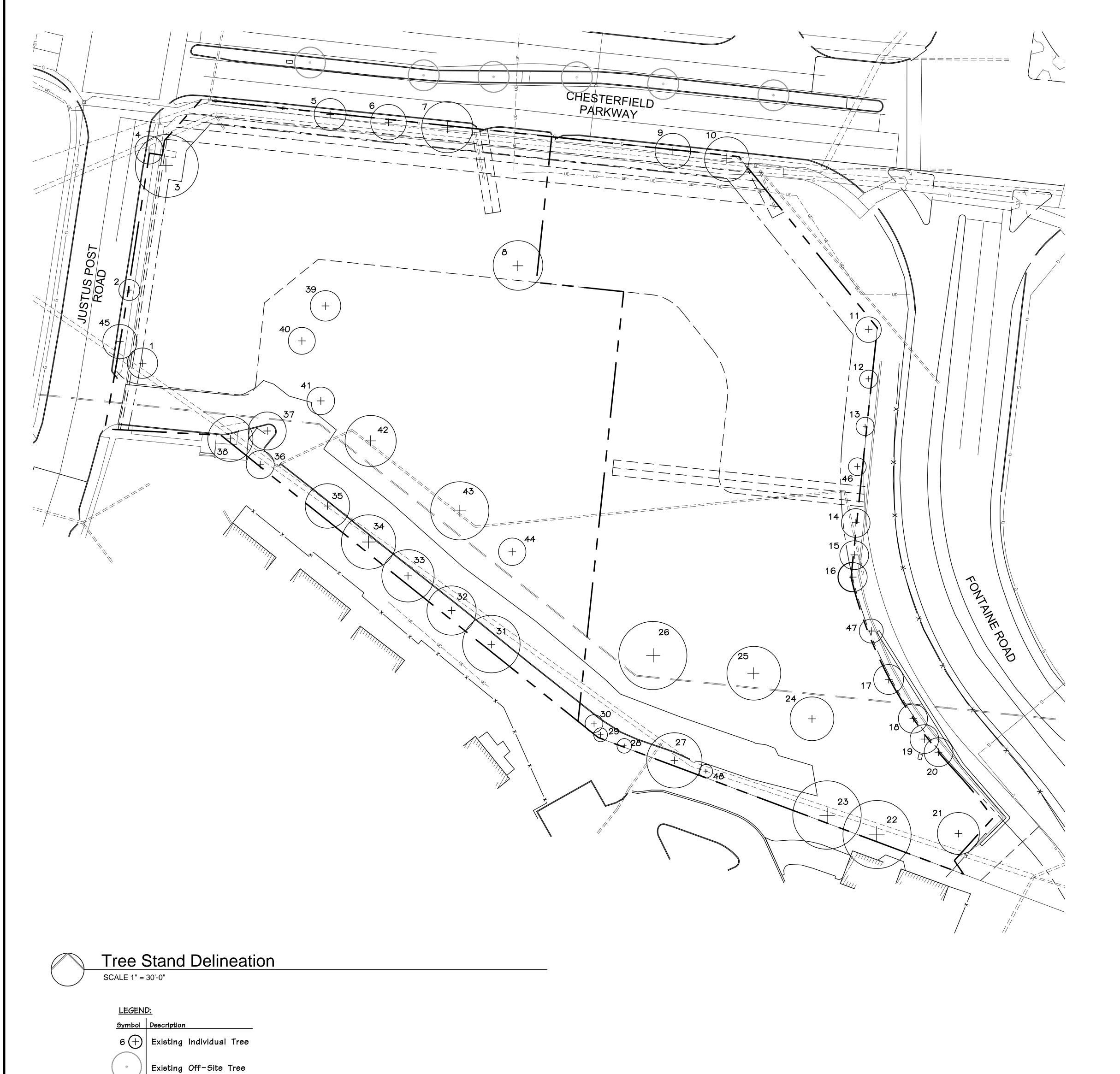
PRELIMINARY SITE SECTIONS

M.D.N.R. #:

SHEET TITLE:

SHEET 2

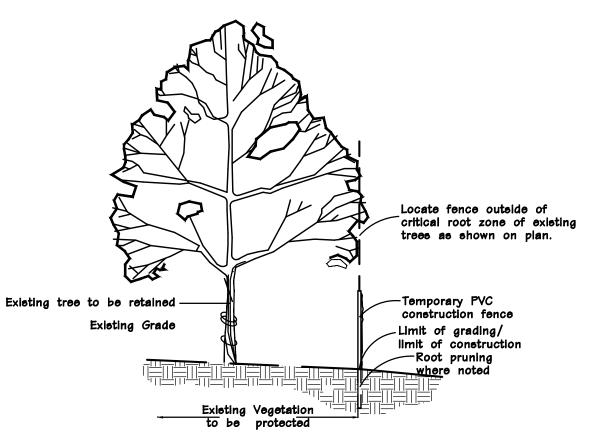




TREE STAND DELINEATION:

No.	Common Name	DBH of Trunk (in.)	Canopy Area (sf.)	Condition Rating (1-5 Scale)	Condition Comment
1	Austrian Pine	16"	300	3	
2	Red Maple	10"	87	2	
3	Honeylocust	24'	1,110	3	
4	Green Ash	14"	48	2	
5	Green Ash	10"	205	3	-
6	Green Ash	12"	170	2	
7	Green Ash	14"	495	2	
8	Sugar Maple	14"	1,000	1	Sunscald dieback
9	Green Ash	18"	250	2	Curiocala dieback
10	Green Ash	18"	400	2	
11	Red Maple	12"	190	3	
12	Red Maple	10"	90	1	50% dead, sunscald/borers
13	Red Maple	8"	80	2	Severe sunscald/borers
14	White Pine	18"	170	2	In decline
15	White Pine	16"	140	3	III de dillie
16	White Pine	16"	150	3	Double leader
17	White Pine	16"	170	3	Double leader
18	Red Maple	10"	160	3	
19	White Pine	10"	190	3	
20	Red Maple	8"	150	3	
21	Green Ash	14"	590	1	50% dead- in decline
22	Green Ash	18"	1,050	3	30 % dead- in decline
23	Green Ash	20"	1,070	3	
24	Pin Oak	16"	700	3	
25	Pin Oak	18"	1,000	3	
26	Sugar Maple	24"	1,250	1	50% dead; sun scald/borers
27	Green Ash	20"	680	3	30 % dead, suit scald/botters
28	Hawthorn	4"	48	3	
29	Colorado Spruce	8"	54	3	
30	Austrian Pine	8"	110	2	
31	Green Ash	20"	740	3	
32	Green Ash	18"	600	2	
33	Green Ash	18"	670	3	
34	Green Ash	20"	760	2	
35	Green Ash	18"	580	3	
36	Crabapple	8"	160	1	50% dead
37	Green Ash	12"	450	2	Joo /o dead
38	Green Ash	18"	450	1	Severe decline
39	Honeylocust	12"	250	3	Gevere decime
40	Honeylocust	12"	250	3	
41	Green Ash	12"	300	2	In decline
42	Green Ash	16"	1,000	3	in decime
43	Green Ash	24"	1,250	3	
44	Green Ash	10"	250	2	
		12"	200	3	
45 46	Red Maple	8"	100	2	Sun scald
47	Red Maple	8"	60	2	25% dieback
48	Red Maple Green Ash	20"	1,000	3	25% dieback

Total Canopy Area: 21,177 sf.



TREE PROTECTION DETAIL n.t.s.

Tree Stand Delineation Plan Prepared under direction of: Douglas DeLong Certified Arborist MW- 4826A

Douglas Q. We hong

Jerald Saunders - Landscape Architect MO License # LA-007

Consultants:

he Grove In Chesterfield

Revisions:

Date Description No.

4/6/15 On-site only 1

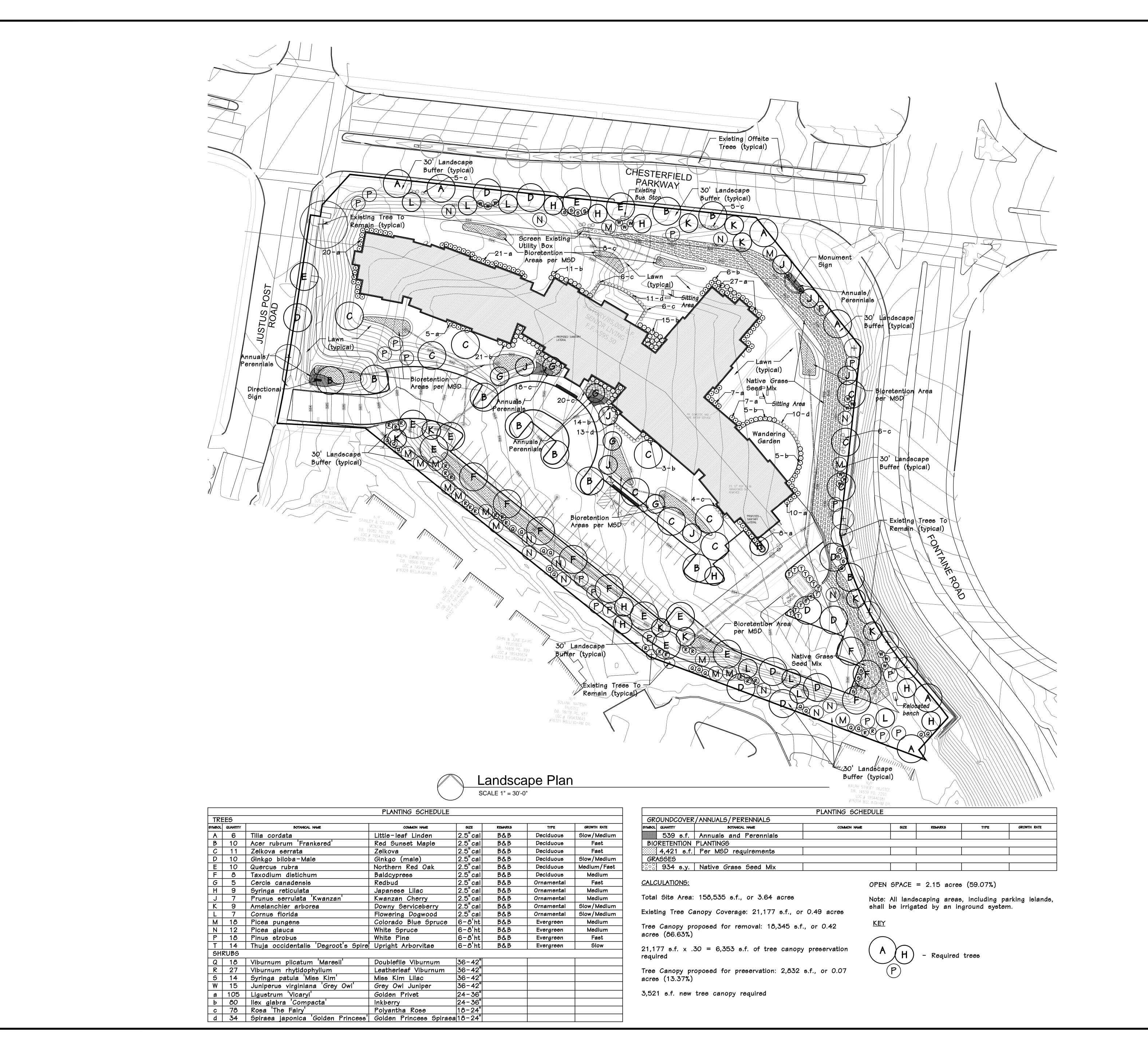
9/23/15 City Comments

Drawn: LWH
Checked: JAS

Ioomis Associates Inc.

Sheet Tree Stand Delineation
Sheet lo: TSD

Date: 568.016



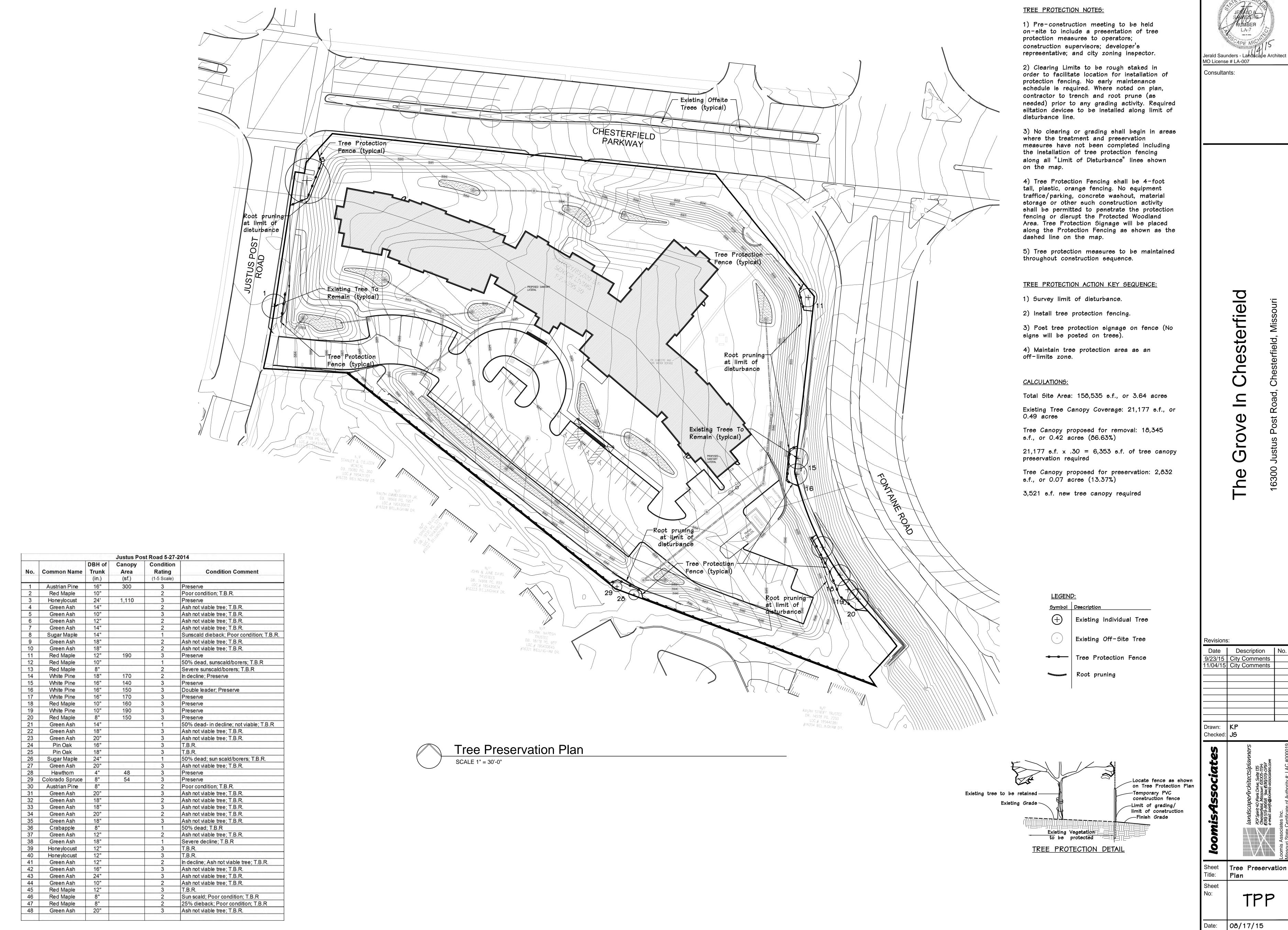
Jerald Saunders - Land MO License # LA-007

Consultants:

9/23/15 City Comments 11/04/15 City Comments

Landscape Sheet _ _ <u>-</u>

Date: 08/17/15 Job #: 568.016



Job #: **568.016**

Lantz = Boggio Architects P.C.

5650 DTC Parkway Suite 200 Englewood, Colorado 80111 (303)773-0436 fax (303)773-8709

Memorandum

September 23, 2015

To: The Architectural Review Board

The City of Chesterfield, Missouri

From: Ro-Tien Liang, RA, LEED AP

Reference: The Grove in Chesterfield

16300 Justus Post Rd. Chesterfield, MO 63017

Architect's Statement of Design

The purpose of this letter is to identify how each section in the Architectural Review Standards has been addressed and the intent of the project.

SITE DESIGN

The building is situated in response to the existing neighborhood with the front of the building facing southwest towards the neighboring residence and the rear of the building facing Chesterfield Parkway. Courtyards and pedestrian paths will be provided for the residents, with the majority of the courtyards being on the north side. The service side is on the east side of the building, which is away from public view.

The access into the facility is off of Justus Post Road. Parking is lineal along the front of the building, with setbacks, existing berm and planting that creates a landscaped foreground from the south neighbors.

The orientation and placement of the building takes advantage of the existing topography to minimize disturbance of the natural grade and uses existing berms to screen the parking area.

Retaining walls will be minimized because of the building placement. In locations where retaining walls are required, it will be of stone, masonry, or textured concrete with appropriate landscaping.

Memorandum 9/23/15

The Grove in Chesterfield ARB – Architect's Statement of Design

BUILDING DESIGN

The scale of the building has taken consideration from adjacent residential and commercial developments. Architectural elements (materials, windows, roof line) are all related to residential design, and borrowing design elements from neighboring houses. The building is divided with connectors, which breaks down the overall mass. It also creates a rhythm that emulates the neighborhood.

The building is laid out in a slight curve, in response to the shape of the site and the topography. This gesture also deconstructs the lineal streetscape.

Roof top equipment will be screened by screen walls and parapets, which are an extension of the building façade, with similar materials and colors.

Equipment and trash enclosure are placed on the east side of the site, which is less visible from the neighborhood on the south. It will be screened by stone and siding walls that match with the main building.

The primary materials used are stone veneer, lap siding, shake siding, cementitious trim boards, and asphalt roof shingles. The colors used are subtle shades of grays, which emulates from the surrounding neighborhood.

The landscaping around the building will be a consistent theme, with variation on specific areas like the courtyard and the main entrance. Setbacks have been established to meet or exceed zoning requirements and appropriate landscaping will be placed around the perimeter of the site.

Monument signage and directional and traffic signs are placed strategically, which will adhere to the city codes.

The above letter states how each section in the standards has been addressed and describes the intent of the project. This letter supplements the drawings that are submitted, which visually depicts our design intent.

7.23.15

Sincerely,

Ro-Tien Liang, RA, LEED AP

Project Director

Lantz-Boggio Architects, P.C.

cc: Bobby Swacil, Bob Brinkmann, Nancy Cutter, David Fik





COLOR LEGEND

COLOR GROUP "A":

PRE-FINISHED SHAKE SIDING - MAGNETIC GRAY (SW 7058)
PRE-FINISHED LAP SIDING - MAGNETIC GRAY (SW 7058)
PRE-FINISHED LAP SIDING - UNUSUAL GRAY (SW 7059)

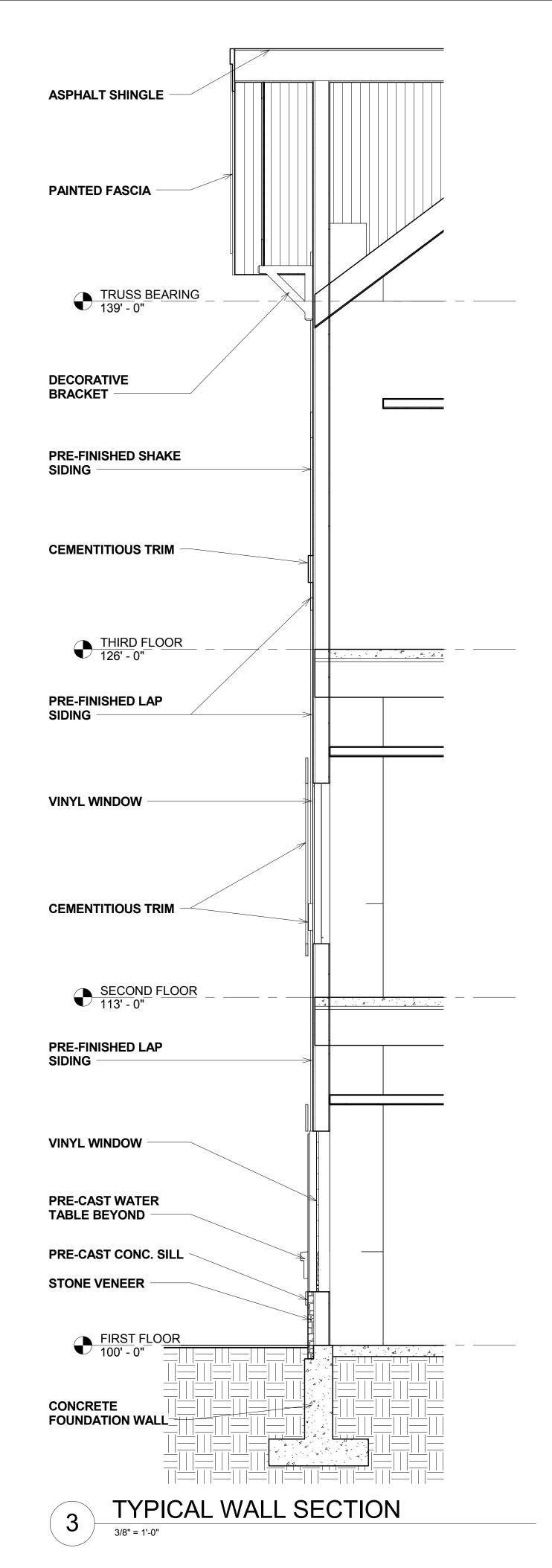
COLOR GROUP "B" :

PRE-FINISHED SHAKE SIDING - AMAZING GRAY (SW 7044)
PRE-FINISHED LAP SIDING - AMAZING GRAY (SW 7044)
PRE-FINISHED LAP SIDING - INTELLECTUAL GRAY (SW 7045)

ROOF GABLES: CEDAR SHAKE SIDING - GRAY SEMI-TRANSPARENT STAIN STONE VENEER: EARTHWORKS MAYOR BLEND











COLOR GROUP "A" : PRE-FINISHED SHAKE SIDING- MAGNETION

COLOR GROUP "A":
PRE-FINISHED SHAKE SIDING- MAGNETIC GRAY (SW 7058)
PRE-FINISHED LAP SIDING - MAGNETIC GRAY (SW 7058)
PRE-FINISHED LAP SIDING - UNUSUAL GRAY (SW 7059)

COLOR LEGEND

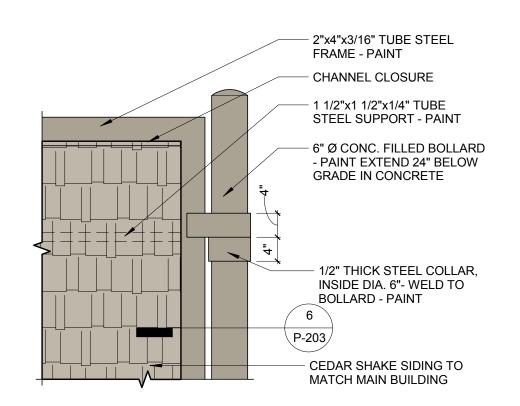
COLOR GROUP "B" : PRE-FINISHED SHAKE

PRE-FINISHED SHAKE SIDING - AMAZING GRAY (SW 7044)
PRE-FINISHED LAP SIDING - AMAZING GRAY (SW 7044)
PRE-FINISHED LAP SIDING - INTELLECTUAL GRAY (SW 7045)

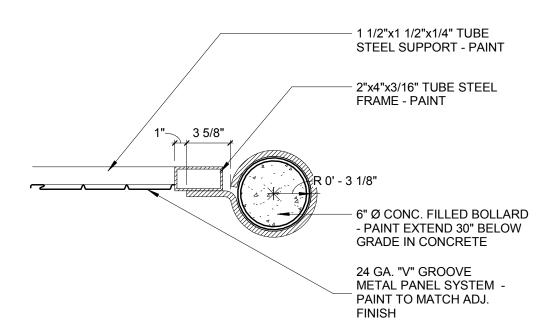
ROOF GABLES: CEDAR SHAKE SIDING - GRAY SEMI-TRANSPARENT STAIN STONE VENEER: EARTHWORKS MAYOR BLEND



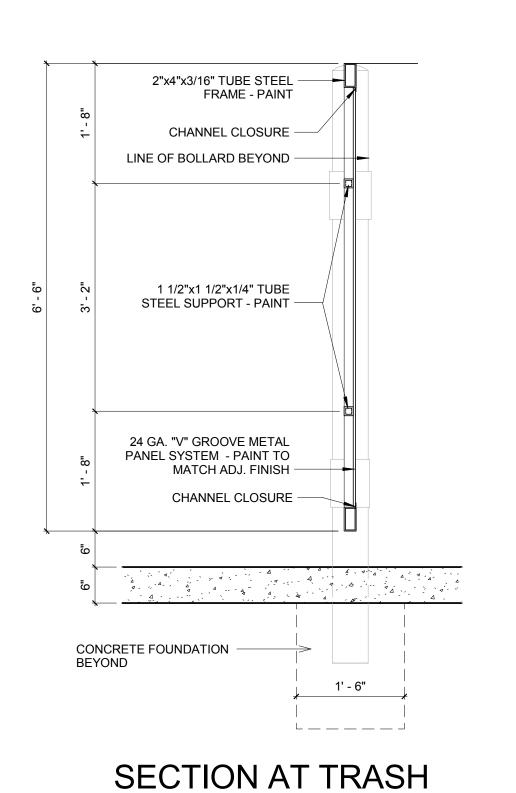






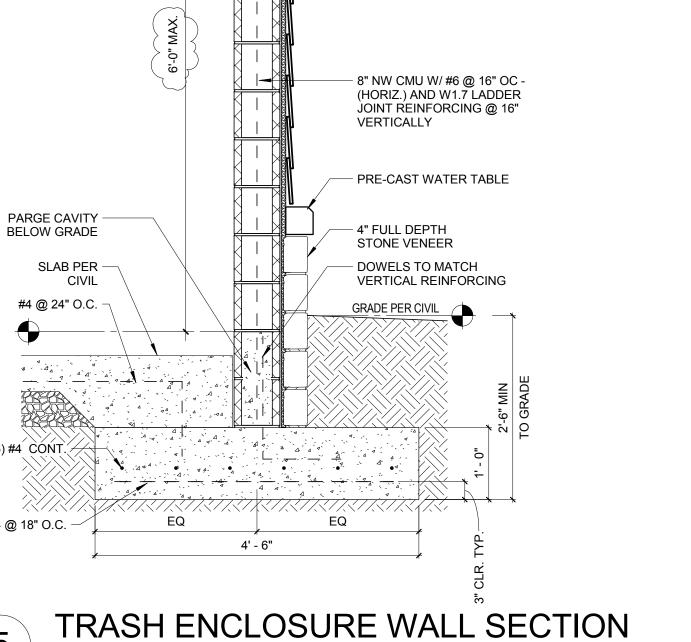


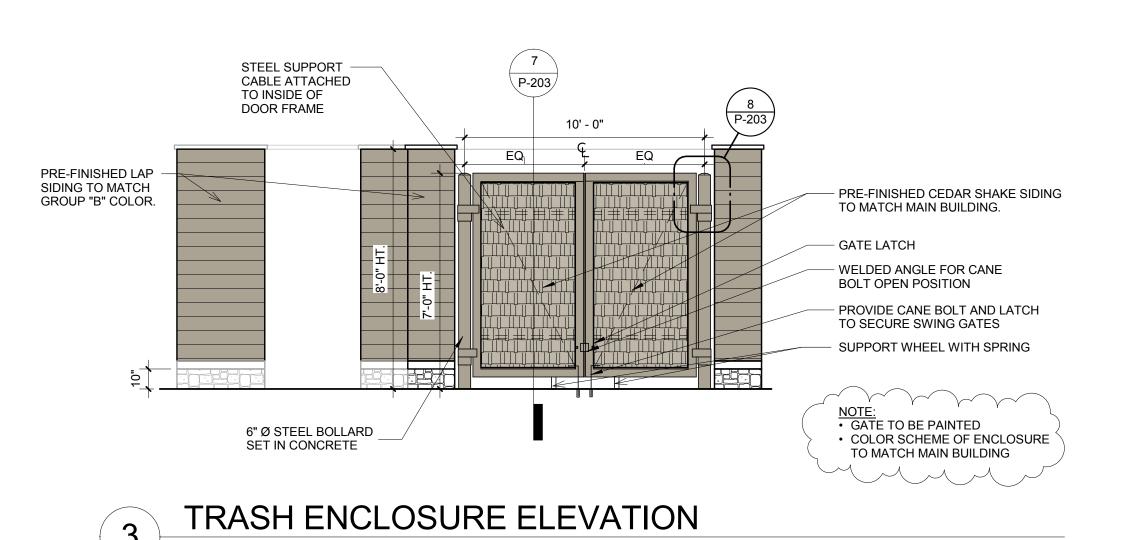
6 TRASH GATE DETAIL

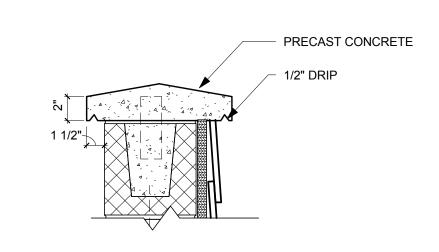


GATE, SUPPORT

AND BOLLARD







9 PRECAST CONCRETE WALL CAP

PRECAST

WALL CAP

CONCRETE

INTERIOR FACE OF

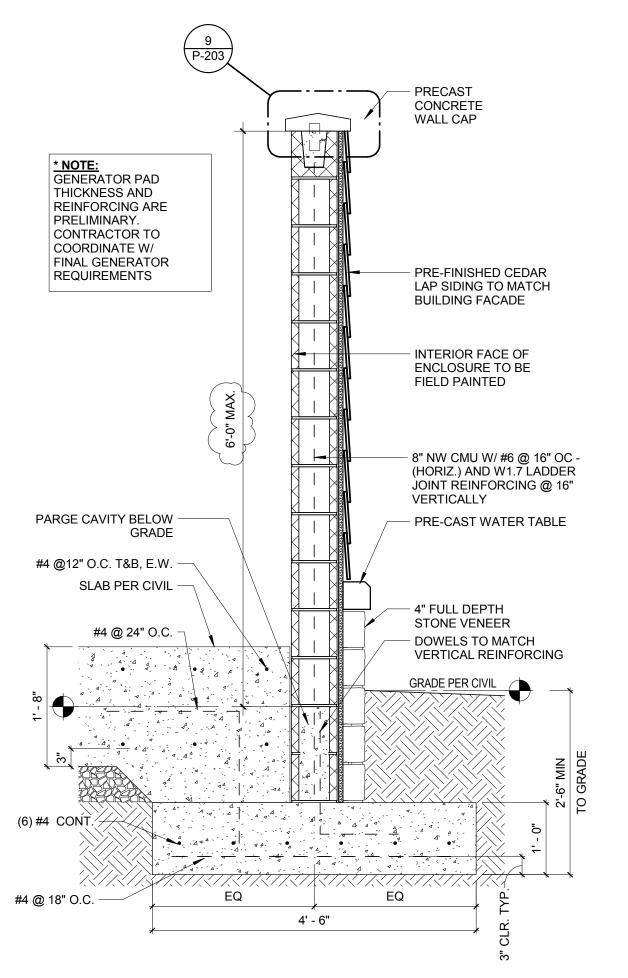
ENCLOSURE TO BE

PRE-FINISHED CEDAR

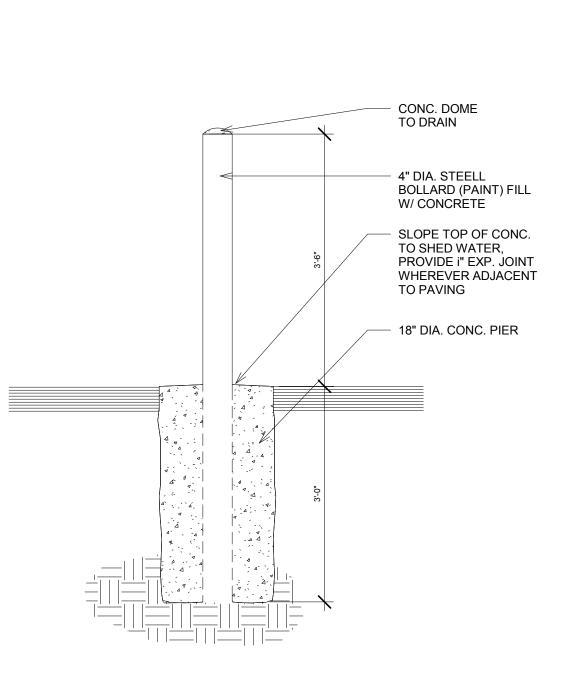
LAP SIDING TO MATCH

BUILDING FACADE

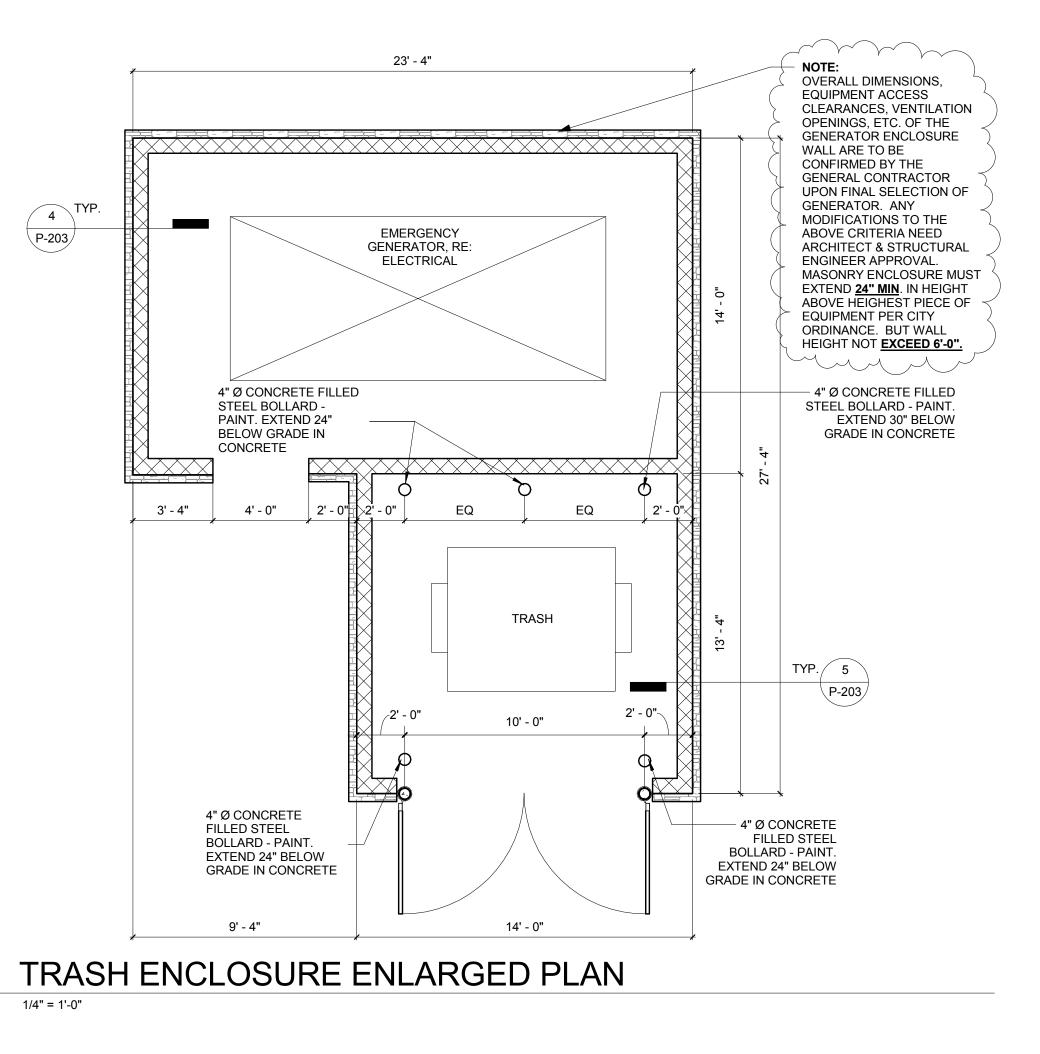
FIELD PAINTED





















FRONT PERSPECTIVE





Rear View



The Grove in Chesterfield

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.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

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.

Warrantv

Five-year warranty.

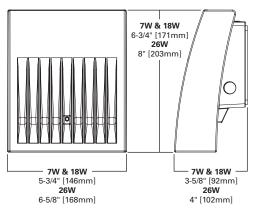


Lumark

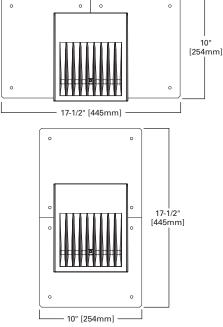
XTOR CROSSTOUR LED

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

DIMENSIONS



ESCUTCHEON PLATES





CERTIFICATION DATA

UL/cUL Wet Location Listed LM79 / LM80 Compliant ROHS Compliant ADA Compliant NOM Compliant Models IP66 Ingressed Protection Rated Title 24 Compliant DesignLights Consortium® Qualified*

TECHNICAL DATA

40°C Maximum Ambient Temperature External Supply Wiring 90°C Minimum

EPA

Effective Projected Area (Sq. Ft.): XTOR1A/XT0R2A=0.34 XTOR3A=0.45

SHIPPING DATA: Approximate Net Weight:

3.7 – 5.25 lbs. [1.7 – 2.4 kgs.]



LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (Hours)			
XTOR1A Mode	el				
25°C	> 92%	> 290,000			
40°C	> 92%	> 290,000			
50°C	> 91%	> 270,000			
XTOR2A Model					
25°C	> 91%	> 270,000			
40°C	> 90%	> 260,000			
50°C	> 88%	> 225,000			
XTOR3A Model					
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 ²	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

Voltage	Model Series				
voitage	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 1	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 ²	[Blank]=Carbon Bronze (Standard) WT=Summit White	PC1=Photocontrol 120V ³ PC2=Photocontrol 208-277V ^{3,4} 347V=347V ⁵ HA=50°C High Ambient ⁵	WG/XTOR=Wire Guard ⁶ XTORFLD-KNC=Knuckle Floodlight Kit ⁷ XTORFLD-TRN=Trunnion Floodlight Kit ⁷ XTORFLD-KNC-WT=Knuckle Floodlight Kit, Summit White ⁷ XTORFLD-TRN-WT=Trunnion Floodlight Kit, Summit White ⁷ EWP/XTOR=Escutcheon Wall Plate, Carbon Bronze EWP/XTOR-WT=Escutcheon Wall Plate, Summit White

NOTES: 1 DesignLights Consortium® 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



McGraw-Edison

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.

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

Choice of 16 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 CCT and 3000K CCT. For the ultimate level of spill light control, an optional house side shield accessory can be field or factory installed. The

house side shield is designed to seamlessly integrate with the SL2, SL3, SL4 or AFL optics.

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

Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during

assembly. Designed for pole or wall mounting. When mounting two or more luminaires at 90° or 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table on page 3. Round pole top adapter included. For wall mounting, specify wall mount bracket option. 3G vibration rated.

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. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

Warranty

Five-year warranty.

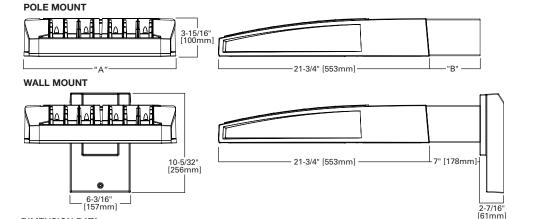


GLEONGALLEON LED

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 Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting







CERTIFICATION DATA

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

ENERGY DATA

>0.9 Power Factor

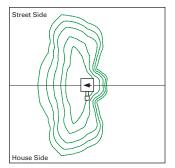
<20% Total Harmonic Distortion 120V-277V 50/60Hz 347V & 480V 60Hz

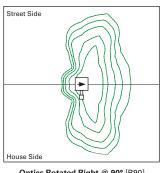
-40°C Min. Temperature 40°C Max. Temperature

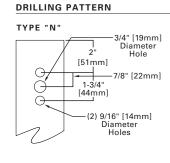
50°C Max. Temperature (HA Option)

OPTIC ORIENTATION

Street Side House Side





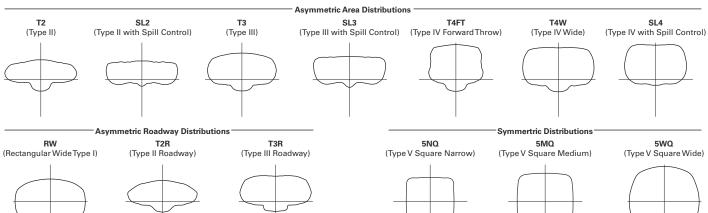


Standard

Optics Rotated Left @ 90° [L90]

Optics Rotated Right @ 90° [R90]

OPTICAL DISTRIBUTIONS



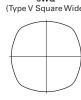










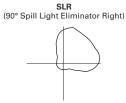


AFL (Automotive Frontline)



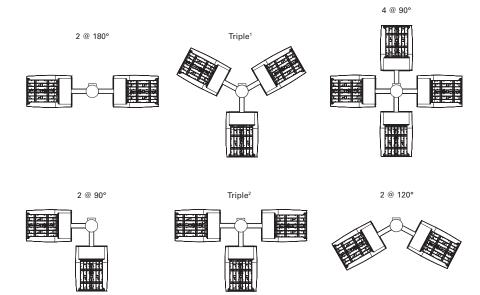


Specialized Distributions



ARM MOUNTING REQUIREMENTS

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

NOMINAL POWER AND LUMENS (1A)

Number of	Light Squares	1	2	3	4	5	6	7	8	9	10
Drive Curre	ent	1A									
Nominal Power (Watts)		56	107	157	213	264	315	370	421	475	528
Input Current @ 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											
T2 -	Lumens	5,272	10,303	15,373	20,313	25,168	30,118	35,618	40,357	45,018	49,842
12	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
T2R	Lumens	5,597	10,938	16,321	21,565	26,719	31,974	37,813	42,844	47,792	52,914
12K	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
то	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
T3R	Lumens	5,493	10,735	16,017	21,164	26,222	31,379	37,110	42,048	46,904	51,930
ISH	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
T4FT	Lumens	5,405	10,562	15,760	20,824	25,801	30,875	36,514	41,372	46,150	51,096
14F1	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
T4W	Lumens	5,335	10,426	15,556	20,555	25,468	30,476	36,042	40,838	45,554	50,436
1400	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
SL3	Lumens	5,373	10,500	15,667	20,701	25,649	30,693	36,298	41,128	45,878	50,794
SLS	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
SL4	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
SIVQ	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
SIVIQ	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	B5-U0-G5
5WQ	Lumens	5,659	11,059	16,501	21,803	27,014	32,327	38,230	43,317	48,320	53,498
J44 Q	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
SLL/SLR	Lumens	4,722	9,227	13,767	18,191	22,539	26,971	31,897	36,141	40,315	44,635
JLL/JLM	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-G5
RW	Lumens	5,492	10,732	16,014	21,159	26,216	31,372	37,101	42,038	46,893	51,918
VVF	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-G4
ΛEI	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-G4

^{*} Nominal data for 4000K CCT.

LUMEN MULTIPLIER

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

LUMEN MAINTENANCE

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

^{*} $50\ensuremath{^{\circ}\text{C}}$ lumen maintenance data applies to 530mA and 700mA drive currents.



NOMINAL POWER AND LUMENS (700MA)

Number of	Light Squares	1	2	3	4	5	6	7	8	9	10
Drive Curre	ent	700mA									
Nominal Power (Watts)		38	72	105	138	176	210	243	276	314	348
Input Current @ 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											
T2	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-G4
T2R	Lumens	4,091	7,995	11,929	15,762	19,529	23,370	27,638	31,316	34,932	38,676
IZK	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-G4
Т3	Lumens	3,928	7,676	11,453	15,133	18,750	22,437	26,534	30,065	33,537	37,132
13	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	Lumens	4,015	7,846	11,707	15,469	19,166	22,936	27,124	30,733	34,283	37,957
ISH	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
T45T	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-G5
T4W	Lumens	3,900	7,620	11,370	15,024	18,615	22,276	26,343	29,849	33,296	36,864
1400	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	Lumens	3,847	7,518	11,217	14,821	18,364	21,975	25,988	29,447	32,847	36,368
SL2	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-G5
SL3	Lumens	3,927	7,675	11,451	15,131	18,747	22,434	26,531	30,061	33,533	37,126
SLS	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	Lumens	3,731	7,292	10,880	14,376	17,812	21,315	25,208	28,562	31,861	35,275
SL4	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-G5
5NQ	Lumens	4,051	7,916	11,811	15,606	19,336	23,139	27,365	31,006	34,587	38,294
SINC	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-G3
5MQ	Lumens	4,125	8,062	12,029	15,894	19,692	23,565	27,869	31,577	35,224	38,999
SIVIQ	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-G4
5WQ	Lumens	4,136	8,083	12,061	15,936	19,745	23,628	27,943	31,661	35,318	39,103
SWQ	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
CLL/CLD	Lumens	3,451	6,744	10,063	13,296	16,474	19,714	23,314	26,416	29,467	32,625
SLL/SLR	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	Lumens	4,014	7,844	11,704	15,465	19,162	22,930	27,118	30,726	34,274	37,948
HVV	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
۸۵	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-G3

^{*} Nominal data for 4000K CCT.

LUMEN MULTIPLIER

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

LUMEN MAINTENANCE

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

 $[\]mbox{*}~50\mbox{°C}$ lumen maintenance data applies to 530mA and 700mA drive currents.

NOMINAL POWER AND LUMENS (530MA)

Number of	Light Squares	1	2	3	4	5	6	7	8	9	10
Drive Curre	ent	530mA									
Nominal Po	Nominal Power (Watts)		54	80	105	130	159	184	209	234	259
Input Current @ 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											
T2	Lumens	3,079	6,017	8,978	11,862	14,697	17,588	20,800	23,567	26,289	29,106
12	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-G4
T2R	Lumens	3,269	6,388	9,531	12,593	15,603	18,672	22,082	25,020	27,909	30,900
12h	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-G4
Т3	Lumens	3,138	6,133	9,150	12,091	14,980	17,926	21,200	24,021	26,795	29,667
13	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
T3R	Lumens	3,208	6,269	9,354	12,359	15,313	18,325	21,671	24,555	27,390	30,326
ION	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-G4
T4FT	Lumens	3,156	6,168	9,203	12,161	15,067	18,030	21,323	24,160	26,950	29,839
1461	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-G5
T4W	Lumens	3,116	6,088	9,084	12,004	14,872	17,797	21,047	23,848	26,602	29,453
1400	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-G5
SL2	Lumens	3,074	6,006	8,962	11,842	14,672	17,558	20,764	23,527	26,244	29,056
JLZ	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-G4
SL3	Lumens	3,138	6,132	9,149	12,089	14,978	17,924	21,197	24,018	26,791	29,662
OLO	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-G4
SL4	Lumens	2,981	5,826	8,693	11,486	14,231	17,030	20,140	22,820	25,456	28,184
OL4	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-G5
5NQ	Lumens	3,236	6,324	9,437	12,469	15,449	18,487	21,863	24,773	27,634	30,595
ON G	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-G2
5MQ	Lumens	3,296	6,441	9,610	12,698	15,733	18,828	22,266	25,229	28,142	31,158
JIVIQ	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-G3
5WQ	Lumens	3,305	6,458	9,636	12,732	15,775	18,878	22,325	25,296	28,217	31,241
	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-G4
SLL/SLR	Lumens	2,757	5,388	8,040	10,623	13,162	15,751	18,627	21,105	23,543	26,066
OLL/OLN	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
RW	Lumens	3,207	6,267	9,351	12,356	15,309	18,320	21,666	24,549	27,384	30,319
	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-G3
AFL	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-G3

^{*} Nominal data for 4000K CCT.

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Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
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 $[\]mbox{*}~50\mbox{°C}$ lumen maintenance data applies to 530mA and 700mA drive currents.



Sample Number: GLEON-AE-04-LED-E1-T3-GM-700

Product Family 1	Light Engine	Number of Light Squares ²	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 08=8 09=9 10=10	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V ³ 480=480V ^{3,4}	T2=Type II T2R=Type II Roadway T3=Type III Roadway T3=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/SpiII Control SL3=Type II W/SpiII Control SL4=Type IV W/SpiII Control SL4=90° SpiII Light Eliminator Left SLR=90° SpiII 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 ⁵ MA=Mast Arm Adapter ⁶ WM=Wall Mount
Options (Add as S	uffix)	•	•		•	Accessories (Order Sepa	rately)	
RW=Rectangular Wide Type I								

NOTES

- 1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.

 2. Standard 4000K CCT and minimum 70 CRI.
- 3. Requires the use of a step down transformer when combined with MS/DIM, MS/X or DIMRE
- A. 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).
 May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
- 6. Factory installed.
- 7. 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AE-02 through AE-04 requires a larger housing, normally used for AE-05 or AE-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.

 8. Not available with LumaWatt wireless sensors.
- 9. Extended lead times apply. Use dedicated IES files for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.

 10. Extended lead times apply. For 8030, factor 7030 IES files x .92 (8% lumen loss). For 7050, use 7060 IES files.

 11. 1 App standard. Use dedicated IES files for 530mA and 700mA when performing layouts. These files are published on the Galleon luminaire product page on the website.

- 12. 50°C lumen maintenance data applies to 530mA and 700mA drive currents.

 13. Consult factory for more information.

 14. Utilizes internal step down transformer when 347V or 480V is selected.

 15. 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.
- 16. Not available with HA option.
 17. Approximately 22' detection diameter at 8' mounting height.
 18. Approximately 40' detection diameter at 20' mounting height.
 19. Approximately 60' detection diameter at 40' mounting height.

- 20. Approximately 100' detection diameter at 40' mounting height.
 21. Replace X with number of Light Squares operating in low output mode.
 22. LumaWatt wireless sensors are factory installed only requiring network components RF-EM-1, RF-GW-1 and RF-ROUT-1 in appropriate quantities. See www.eaton.com/lighting for LumaWatt application information. 23. Not available with house side shield (HSS).

- 24. Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.

 25. CE is not available with the DIMRF, MS, MS/X, MS/DIM, F, FF, P, R or PER7 options.

 26. This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information

 27. One required for each Light Square.

