



III. A.

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

Architectural Review Board Staff Report

Project Type: Site Development Plan

Meeting Date: May 10, 2018

From: Cassie Harashe, Project Planner

Location: 14905 Clayton Road

Description: **Brite Worx (14905 Clayton Road)**: A Site Development Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 1.72 acre tract of land zoned "PC" Planned Commercial District located on the western corner of the intersection of Clayton Road and Baxter Road.

PROPOSAL SUMMARY

The request is for a Site Development Plan, Landscape Plan, Lighting Plan, Architectural Elevations and an Architect's Statement of Design for a new 4,020 square foot stand-alone carwash facility at 14905 Clayton Road. The proposed building is to be constructed of EIFS and brick veneer with a stone base and a clear acrylic roof system. Accents include metal fascia, exposed steel ribbing, and clear glass windows. The subject site is zoned "PC" Planned Commercial District and is governed under the terms and conditions of City of Chesterfield Ordinance 2977.

HISTORY OF SUBJECT SITE

The subject property was originally zoned "C8" Planned Commercial District. In 1998, Arch Energy petitioned to change the zoning to allow for a filling station, a fast food restaurant, and a vehicle washing facility for automobiles. After initially being denied by the City, the zoning was changed to "PC" Planned Commercial District in June 2001 by Ordinance 1750. Ordinance 1750 underwent two amendments in 2001, ultimately ending with Ordinance 1803. In 2018, the subject site was zoned "PC" Planned Commercial District with an entirely new City of Chesterfield Ordinance 2977 to establish all new development criteria and uses for the site.

STAFF ANALYSIS

General Requirements for Site Design:

A. Site Relationships

The proposed carwash is to be located on a diagonal with the exit of the carwash facing the intersection of Clayton Road and Baxter Road. During the zoning process the location of the

carwash in relationship to the adjacent property owners was discussed at length. The length and the angle of the carwash was located to be as far from the residents as possible while still meeting other requirements such as, throat depths, turning radii, and landscape buffers. This angle also the exit of the carwash with the drying system located at the end of the carwash closest to the intersection. This puts the loudest portion of the carwash further away from the residents. The carwash will have vacuum stations on the western side that utilize a central vacuum system. This system will be enclosed within the taller of the two towers on the building, again to minimize the amount of noise the site will generate. The site has the Woodfield Residential Subdivision to the north and west. On the south and east sides of the development are office and retail spaces, including a gas station with convenience store.



Figure 1: Site Photo

B. Circulation System & Access

Proposed ingress and egress from the site will be from two right-in/right-out access points, one on Clayton Road and one on Baxter Road. Parking is proposed at the vacuum stations and north of the drive aisle along Clayton Road. Vehicles will enter the carwash from the northwest corner and exit at the southeast corner; customers can then turn left to access the vacuum stations.

A sidewalk is already in place along both Clayton and Baxter Roads to provide pedestrian access.

C. Topography & Retaining Walls

The subject site has an approximately 15 foot grade change from the northern side of the development to the north property line. One modular block retaining wall is proposed on the western side of the development along an existing wooden fence. This wooden fence will be removed, except the most southern 35'. This portion of the wood connects to a 13 foot section of chain link fence that carries over from the neighboring development to the west.

General Requirements for Building Design:

A. Scale, Design, Materials and Color

There are two tower elements, one on the northeast and one on the southwest side of the of the carwash tunnel. The northeast tower will be 22' 5" tall and the southwest tower will be 25 feet tall. The carwash tunnel is 21 feet tall with two tower elements. The tunnel portion of the carwash is a similar scale to the Walgreens to the south and the gas station canopy to the southeast. The scale of the building is broken down by providing various height changes along the east and west elevations, and a logical pattern of materials and windows along the north and south elevations. The applicant is proposing two human entry points which are adjacent to the

auto entrance and exits on the narrow ends of the building. Finally, the building is provided with human scale by using horizontal banding to reduce the visual scale of the vertical elements.



Figure 2: Color Site Plan

Materials planned for this proposal include EIFS, brick veneer, stone base, a clear acrylic roof system, metal fascia, exposed steel ribbing, clear glass windows, limestone coping, aluminum gutters and downspouts. The EIFS, brick veneer, and stone base will be in shades of tan with metal fascia accent pieces in Pantone 23, Blue. Material samples will be made available for the Board's consideration at the meeting. During the zoning process different elevations were shown to residents and the Planning and Public Works Committee. The final elevation proposed, Figure 3, does significantly match what was presented previously.



Figure 3: Color Elevations

B. Landscape Design and Screening

Landscaping is planned in association with the proposed development as required by the City of Chesterfield. The landscape design provides both deciduous and evergreen trees throughout the site, along with preserving many existing trees along the north and west property lines. Due to the presence of existing overhead utility lines and large sight distance triangles along Clayton Road and Baxter Road, the applicant is proposing a wide variety of low growing species in a meandering pattern to provide a wide variety of textures and colors. Additionally, many of these species have been integrated throughout the site to ensure a variety of seasonal color and texture is present.

The site will have an artisan concrete screen wall along the western edge of the vacuum station that continues to wrap around the northern side of the drive aisle around the development. There will be an additional wall along most of the western property line. The wall will continue northward into the common ground of the Woodfield Subdivision where it will then continue eastward on a berm in the common ground to provide additional sound buffering to the residents. The location of these walls are indicated by blue arrows in Figure 4. Both of these screening walls are required per the Governing Ordinance.

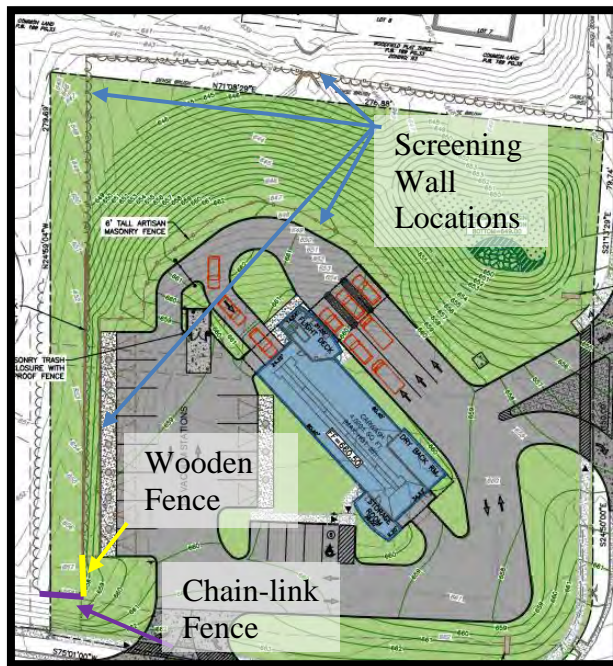


Figure 4: Screening Wall & Fence Locations

At the southern end of the vacuum stations, the artisan wall will end and tie into a portion of the existing wood fence. The wooden fence currently parallel to a large portion of the western property line. This fence will be removed, except for the portion indicated in yellow in Figure 4. This wood fence connects to an existing chain-link fence; approximately 13' of this fence, shown in purple in Figure 4, carries over onto the subject site from the southern property line of the Woodfield Development. The existing conditions of these fences can be seen in Figure 5.

A trash enclosure is planned to be located at the northeast corner of the building. The enclosure is proposed to be the same material as the artisan concrete screening wall with sight proof doors in a similar color.



Figure 5: Existing Fencing Conditions

C. Signage

Signage will be approved by a separate City process.

D. Lighting

Lighting is planned in association with this development. The proposed lighting plan consists of one (1) light standard at two different heights. Per Ordinance No. 2977, light poles cannot exceed 8' on the north and west sides of the development and 16' elsewhere on the site. The Ordinance also has stricter requirements pertaining to non-security lighting. Since the proposed building design includes a clear roof, the applicant has provided a four lighting plans. One for the site as a whole during operating hours, one for the site as whole indicating the security lighting, one for inside the tunnel during operating hours, and one for inside the tunnel indicating security lighting. The applicant is proposing to use the same utilitarian light fixture on two different pole heights to comply with the Ordinance. The only wall mounted fixtures will be located at the human entry and exit points. No accent lighting is proposed for this building.

DEPARTMENTAL INPUT

Staff has reviewed the Site Development Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design. Be advised that this project is still going through development review by City Staff and will not proceed to the Planning Commission until all outstanding items have been addressed. All recommendations made by the ARB will be included in Staff's report to the Planning Commission.



Figure 6: Color Rendering

MOTION

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

- 1) "I move to forward the Site Development Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for Brite Worx Car Wash as presented, with a recommendation for approval (or denial) to the Planning Commission."
- 2) "I move to forward the Site Development Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for Brite Worx Car Wash to the Planning Commission with the following recommendations..."

Attachments
Architectural Review Packet Submittal



Architecture Planning Construction Management
www.osmarchitecture.com

April 23, 2018

Ms. Cassie Harashe, AICP
Project Planner
City of Chesterfield
690 Chesterfield Parkway West
Chesterfield, Missouri, 63017

RE: Brite WorX, 14905 Clayton Road

Dear Cassie,

Per your request, I am submitting this Architect's Statement of Design for review and comment.

Section C:

- (1) The submittal provides a site relationship with maximum buffer to surrounding properties while also maintaining a higher than minimum street frontage buffer providing a gentle transition from street to the development.
- (2) The submittal provides safe movement of all types throughout the site with separate and distinct pathways. The orientation of the building on site takes advantage of solar angles and creates pockets of visual interest throughout the site experience. Parking is primarily oriented away from the intersection view to the side and rear of the development.
- (3) The submittal uses the existing topography, as much as practical, to maintain the existing character. Topographical changes required complement the existing topography.
- (4) The submittal attempts use topography changes to minimize retaining wall use. Where retaining walls are proposed, they are intended to be low (less than 4') and used to protect existing mature trees to maintain a landscape buffer between the site and neighboring buildings.

Section D:

- (1) The submittal shares building scale compatibility and elements with the Walgreens opposite the site at the larger element and with the Petro-Mart and office building at the intersection at the smaller element. Human scale is achieved through use of recognizable scale materials and horizontal banding to reduce the visual scale of the vertical elements. Generic scale is achieved by site orientation and building massing to enhance the rhythm along the street.
- (2) The submittal relies on articulated vertical elements (towers) to physically and visually contrast the main building's low, linear form. Roof top screening is integral to the design elements, in contrast to the surrounding properties. Overhangs and tower element offsets at the entry and exit provide a transition into the facility. Highly efficient lighting combined with the building orientation with respect to the solar angles provides better energy efficiency.

- (3) The submittal's use of different and compatible materials provides visual interest, reduces visual scale and are complimentary to the adjacent properties visible from the intersection. All materials proposed are durable to reduce maintenance requirements. Contrasting pavement color is incorporated into the proposal.
- (4) The submittal preserves many existing mature trees, primarily along the buffer/perimeter of the site. The additional perimeter landscaping follows the rhythm and theme of the existing. Landscape screening has been provided along the perimeter of the site and screening is provided internally to the landscaping to provide a visual barrier from off site. The internal screening material is masonry and complimentary to the building material. Building landscaping is grouped in clusters, primarily shrubs, to provide visual interest and soften the hard edges at ground level. Additional individual trees are proposed to add points of interest. Street landscaping is also clustered and varied to provide interest and focal points along the street. Parking and drive landscaping is fully protected from vehicular and pedestrian traffic. Trash enclosure materials are complimentary to the building materials and also screened by landscaping.
- (5) The signage will be reviewed under a separate process to comply with City requirements.
- (6) The lighting will be reviewed under a separate process to comply with City requirements.

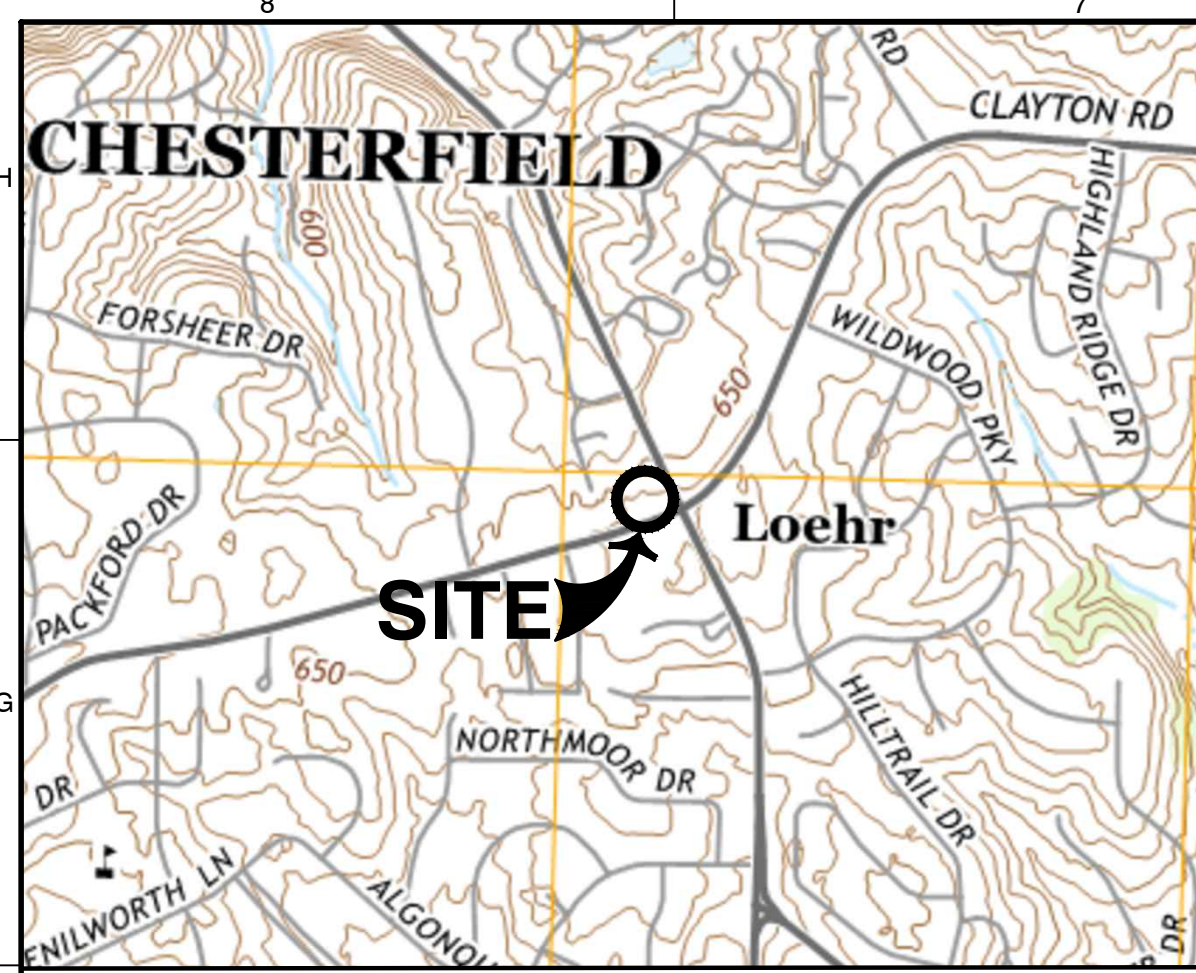
I believe this submittal meets the Chesterfield Architectural Guidelines for the reasons stated above. If you have any questions, please call.

Sincerely,

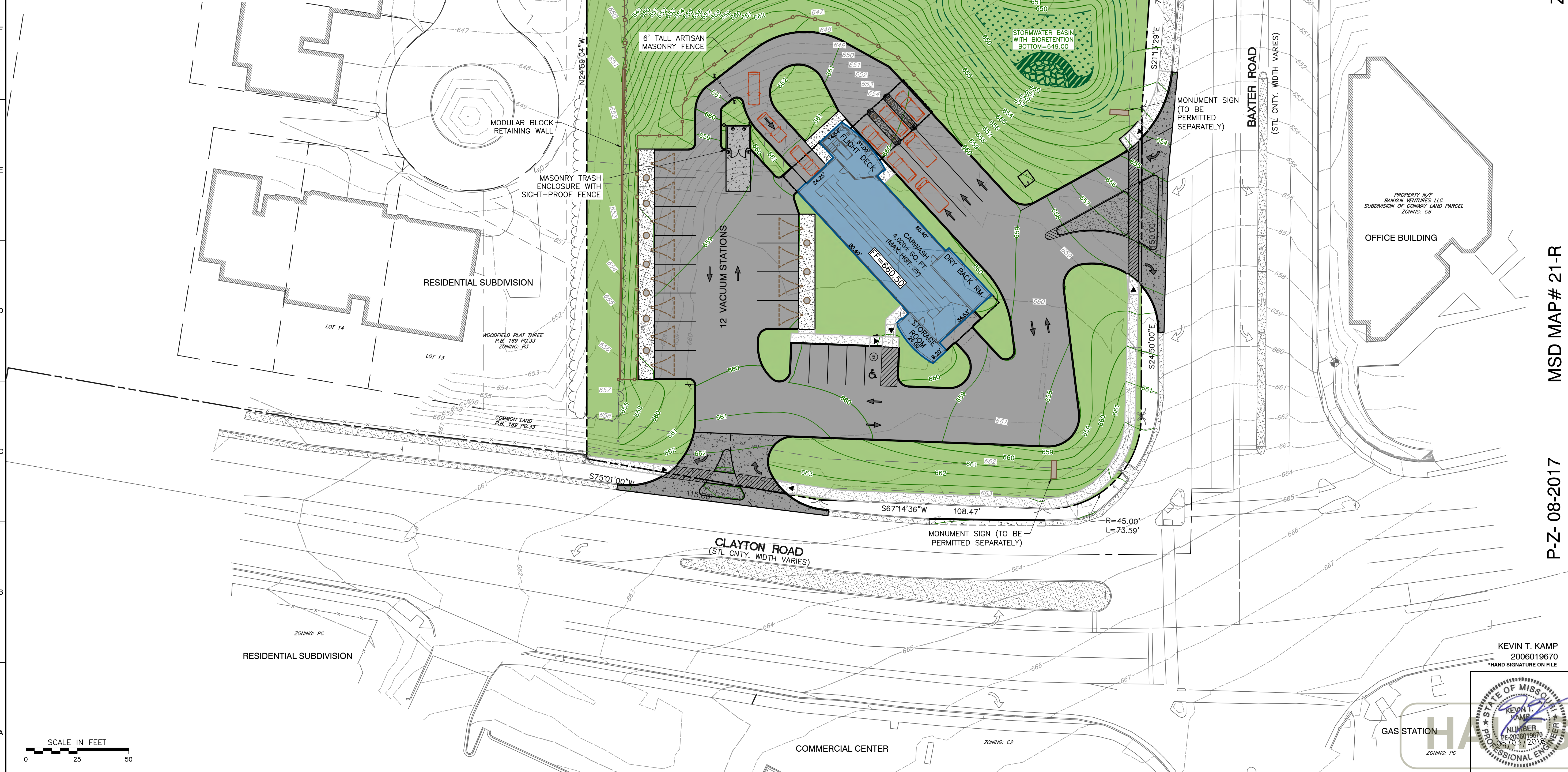


Stewart W. MacGregor
President/CEO
OSM, Inc.





SITE USGS AND LOCATION MAP
 U.S.G.S. 7.5 TOPOGRAPHIC MAP, MANCHESTER QUADRANGLE, MISSOURI DATED 2015
 SCALE 1" = 1,000'



NO.	DATE	DESCRIPTION
1	04/25/19	SUBMITTAL FOR ARCHITECTURAL REVIEW BOARD
2	06/03/19	RESUBMITTAL FOR ARCHITECTURAL REVIEW BOARD
3		
4		
5		
6		
7		
8		

Civil & Environmental Consultants, Inc.
 CERTIFICATION/LICENSE NO. 2002013942
 4848 Park 370 Blvd., Suite F - Hazelwood, MO 63042
 314-656-4566 - 866-250-3679
 www.cecinco.com

WALLIS COMPANIES
 106 EAST WASHINGTON
 CUBA, MO 65453
 (636) 549-1600

BRITE WORX CARWASHERY
 14905 CLAYTON ROAD
 CHESTERFIELD, MO 63017
SITE PLAN

DATE: APRIL 2019 DRAWN BY: CAC
 DWG SCALE: 1" = 25' CHECKED BY: KTK
 PROJECT NO: 153-224
 APPROVED BY: KTK

KEVIN T. KAMP
 2006019670
 *HAND SIGNATURE ON FILE

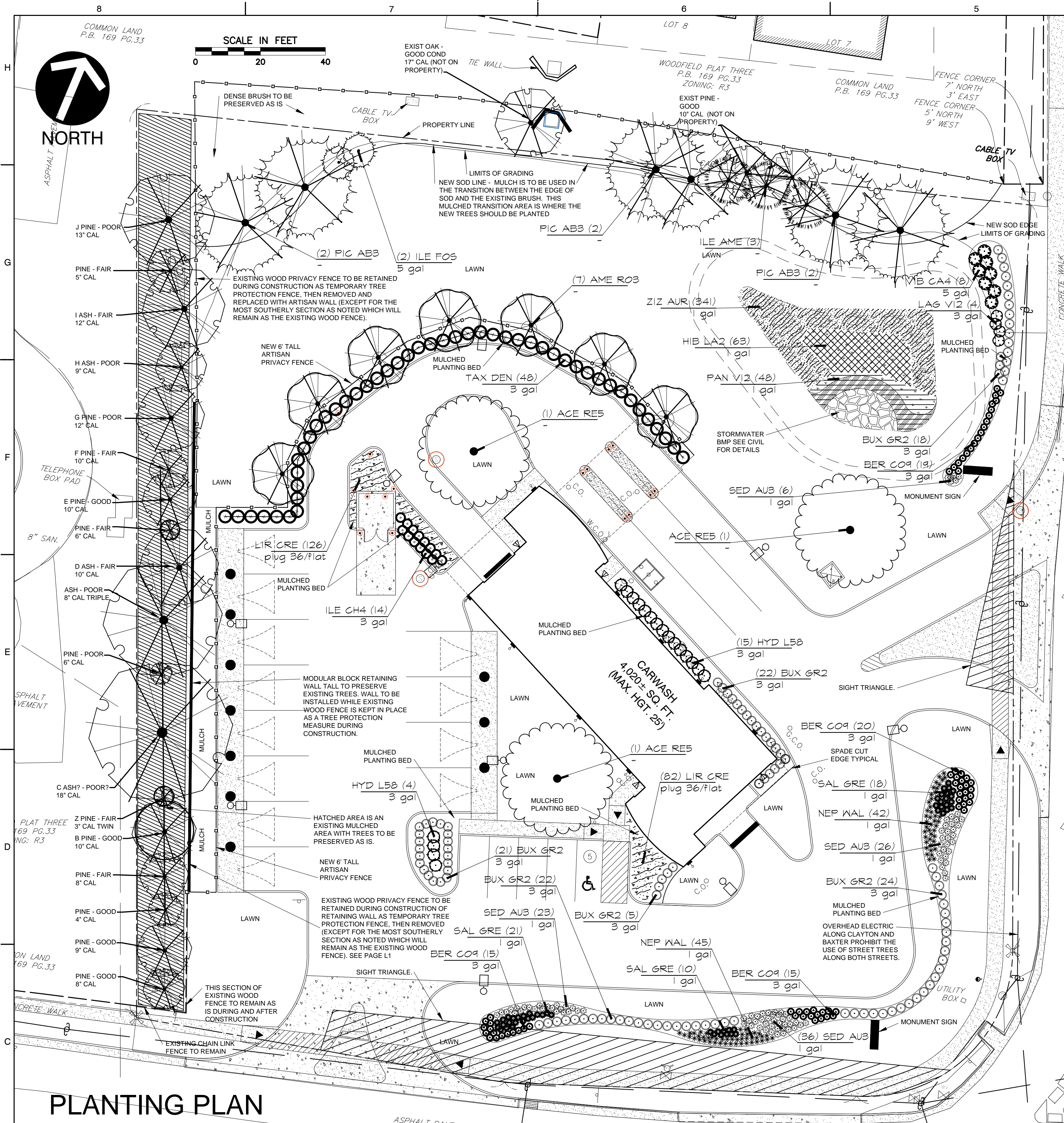


SCALE IN FEET
 0 25 50

I:\SP-STRUCT\PROJECTS\2015\153-224-CAD\DWG\153-224-SITEPLAN\153-224-SITE PLAN.dwg LAST SAVE BY(CHECKED) - 5/1/2019 10:27:10 AM LAST PRINTED BY(MAKE, CHECK) - 5/1/2019 11:15:56 AM

MSD MAP# 21-R ZIP- 63017 P-Z- 08-2017

DRAWING NO: **ARB**
 SHEET 01 OF 01



PLANTING PLAN

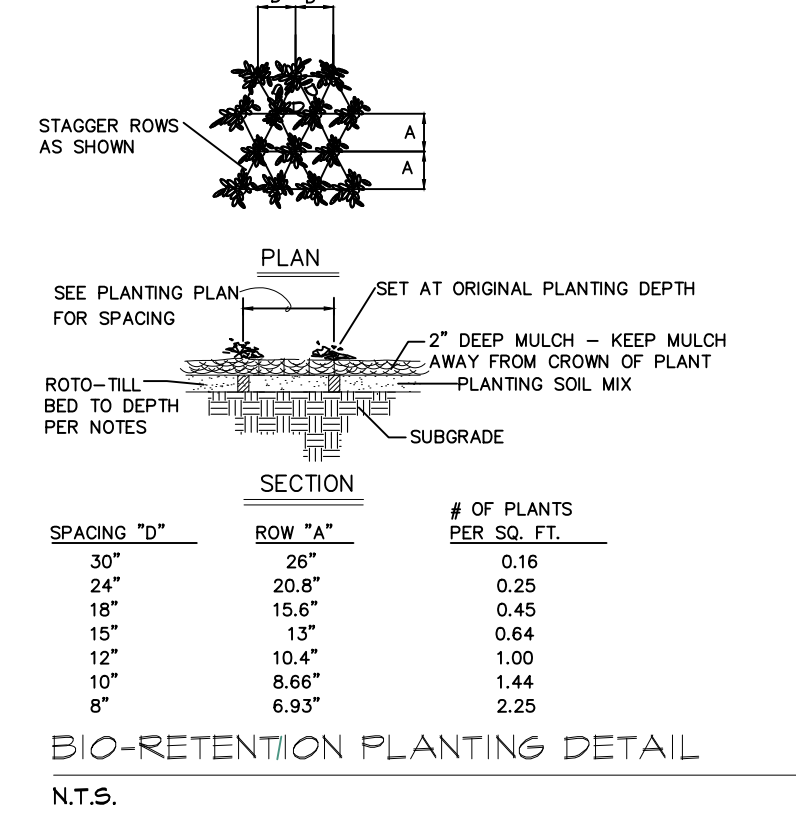
PLANTING, WATER and MULCH REQUIREMENTS FOR BIO-RETENTION AREA					
WATER AVAILABILITY	REQUIRED PLANTING PERIOD	MINIMUM CONTAINER SIZE	WATER REQUIREMENT FIRST 3 WEEKS *	WATER REQUIREMENT AFTER 3 WEEKS *	MAXIMUM MULCH DEPTH
NO AVAILABILITY TO WATER AFTER	LATE FEB. - APRIL ONLY	2.25"x3.75" OR LARGER	WATER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

ONLY USED IF RAIN GARDEN IS INSTALLED BEFORE THE IRRIGATION SYSTEM

THIS PROJECT TO HAVE AUTOMATED IRRIGATION INSTALLED

* THIS WATER AMOUNT INCLUDES NATURAL RUNOFF. IF YOU GET 1/2" OF RAIN, THEN YOU WILL NEED TO ADD 1/2" OF WATER TO MEET THE 1" REQUIREMENT.
 ** REQUIRES TRANSPORT OF WATER TO THE PLANTING SITE IN LARGE CONTAINERS AND POURING ENOUGH WATER ONTO EACH PLANT (AFTER PLANTING) TO MOISTEN THE ENTIRE PLANTING PIT.
 *** PLANTS ARE ESTABLISHED WHEN ROOTS HAVE GROWN OUT OF THE CONTAINER SOIL AND INTO THE NATIVE SOIL BY 3"-5". THIS NORMALLY TAKES 3-4 MONTHS FOR MOST PERENNIALS AND GRASSES AND UP TO 6-7 MONTHS FOR MOST TREES AND SHRUBS.

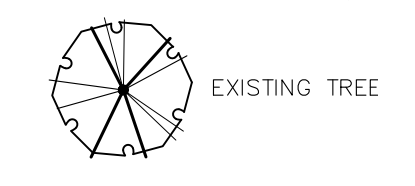
CONTRACTOR TO PROVIDE SIGNED AND SEALED SHOP DRAWINGS TO BE APPROVED BY THE PROJECT ENGINEER AND MSD. CONTACT MSD AT 314/335-2072.



PLANT SCHEDULE

TREES	CODE	BOTANICAL NAME / COMMON NAME	QTY
	ACE RES	Acer rubrum / Red Maple	-
	AME ROB	Amelanchier x grandiflora 'Robin Hill' / Apple Serviceberry Single Stem	-
	ILE AME	Ilex opaca / American Holly May substitute Foster Holly	-
	ILE FOS	Ilex x attenuata 'Fosteri' / Foster's Holly	5 g
	PIC ABB	Picea abies / Norway Spruce	-
SHRUBS			
CODE	BOTANICAL NAME / COMMON NAME	QTY	
BER CO4	Berberis thunbergii 'Concorde' / Concorde Barberry	3 g	
BUX GR2	Buxus x 'Green Velvet' / Boxwood	3 g	
HYD L58	Hydrangea paniculata 'Little Lime' / Little Lime Hydrangea	3 g	
ILE CH4	Ilex x meserveae 'China Girl' TM / China Girl Holly	3 g	
LAG V12	Lagerstroemia indica 'Victor' / Grape Myrtle	3 g	
NEP WAL	Nepeta x faassenii 'Walkers Low' / Walkers Low Catmint	1 gc	
SAL GRE	Salvia greggii / Autumn Sage	1 gc	
SED AUB	Sedum x 'Autumn Joy' / Autumn Joy Sedum	1 gc	
TAX DEN	Taxus x media 'Densiformis' / Dense Yew	3 g	
VIB CA4	Viburnum dilatatum 'Cardinal Candy' / Cardinal Candy Viburnum	5 g	
GROUND COVERS			
CODE	BOTANICAL NAME / COMMON NAME	QTY	
LIR GRE	Liriope spicata / Creeping Lily Turf Liriope 'Muscari' of any variety MAY NOT be used as a substitution. may substitute larger size	plug	
BIO-RETENTION PLANTS			
CODE	BOTANICAL NAME / COMMON NAME	QTY	
HIB LA2	Hibiscus lasiocarpus / Rosemallow	1 gc	
PAN V12	Panicum virgatum / Switch Grass	1 gc	
ZIZ AUR	Zizia aurea / Golden Alexander	1 gc	

NOTE:
 ALL BIO-RETENTION DETAILS AND SPECIFICATIONS ARE INCLUDED ON THIS PAGE.
 FOR ALL OTHER LANDSCAPING OUTSIDE OF THE BIO-RETENTION AREA, SEE PAGE L3 FOR PLANTING DETAILS AND SPECIFICATIONS.
 ALL LANDSCAPE NEW PLANTING BEDS AND LAWN TO BE IRRIGATED WITH AN IN GROUND MECHANICAL IRRIGATION SYSTEM.



Maintenance plan @ rain garden AND/OR bio-retention basin:

Routine inspections and attention to maintenance needs are required in both rain gardens and bio-retention basins if they are to function properly and as designed. As the plant material matures, however, the amount of maintenance decreases. A properly trained team of lawn maintenance contractors should be able to maintain the system properly. The bottom line: rain gardens and bio-retention basins do not require as much maintenance as a lawn.

The primary maintenance involves inspecting the beds on a regular basis and repairing damage and/or replacing plant material as needed. Each of these areas require minimal use of pesticides, fertilizers and supplemental watering. Over time, the plant growth, root establishment and organic decomposition will create a natural soil horizon. This will result in the need for less maintenance and a longer life span.

After installation of all plant material, water the plants daily for at least two weeks. Thereafter, the system will need about 1" of natural rainfall or supplemental watering until it is established. Initially, weeding (bi-weekly) of new rain gardens/bio-retention basins is critical for the first few months after the planting is completed. Mulch will help to keep weed germination and erosion issues to a minimum. It is very important to re-mulch all void areas and to maintain a good coverage.

Accumulation of sediment is a sign that the system is working properly. However, sediment and debris removal (approximately twice a year), especially at the point of inflow, will be the most important task thereafter to maintain the rain gardens and bio-retention basins. Replacement of dead plant material, repair of soil erosions, annual re-mulching with pea gravel, unclogging drains and the repair of the overflow structures may be necessary as they develop and mature. Unfortunately, over the span of about ten (10) years, the soils may need to be replaced due to the exchange capacity of the cells as they become closed and the drainage qualities will deteriorate.

Dense shrub growth will increase the filtering capacity. Scruffy or discolored plants should be cut back after the spring growth is 6" tall. If possible, raising a mower deck to a height of 6" will make this job easier. By deadheading the flowers, new growth will result. Leaving seed heads and fruit should be encouraged to provide winter interest, bird food and wildlife coverage.

Soil testing should be done months to determine the PI appropriate for the plants c

Use controlled burning as a department/district.

No fertilization is required c self-sustaining with the help fertilizer will encourage we

Additional maintenance mi and/or fungal problems, re cuttings, moving rocks that build-up of areas needing r

Tasks schedule:

Immediate tasks: water plan rainfall is recorded.

Weekly: weed beds. Inspe Re-mulch any void areas b as needed.

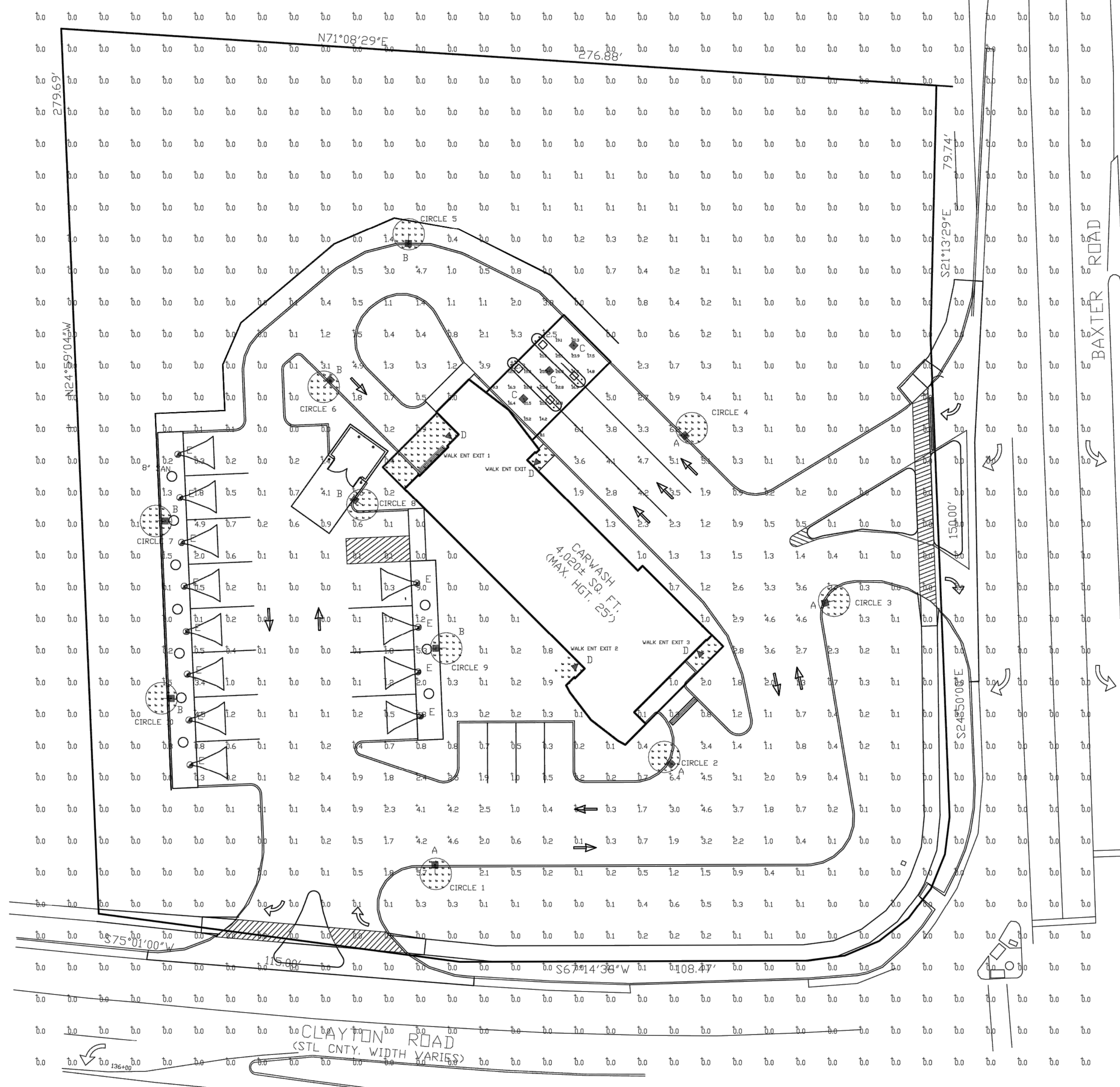
Monthly: visually inspect ar disease (use least toxic ap dissipation of water.

Twice a year: remove exce Between march 15TH-April 30TH, remove and replace beyond treatment.

Once a year: check the Ph. vegetation material if no di that remain on trees.

Every two to three years: re

NOT TO SCALE



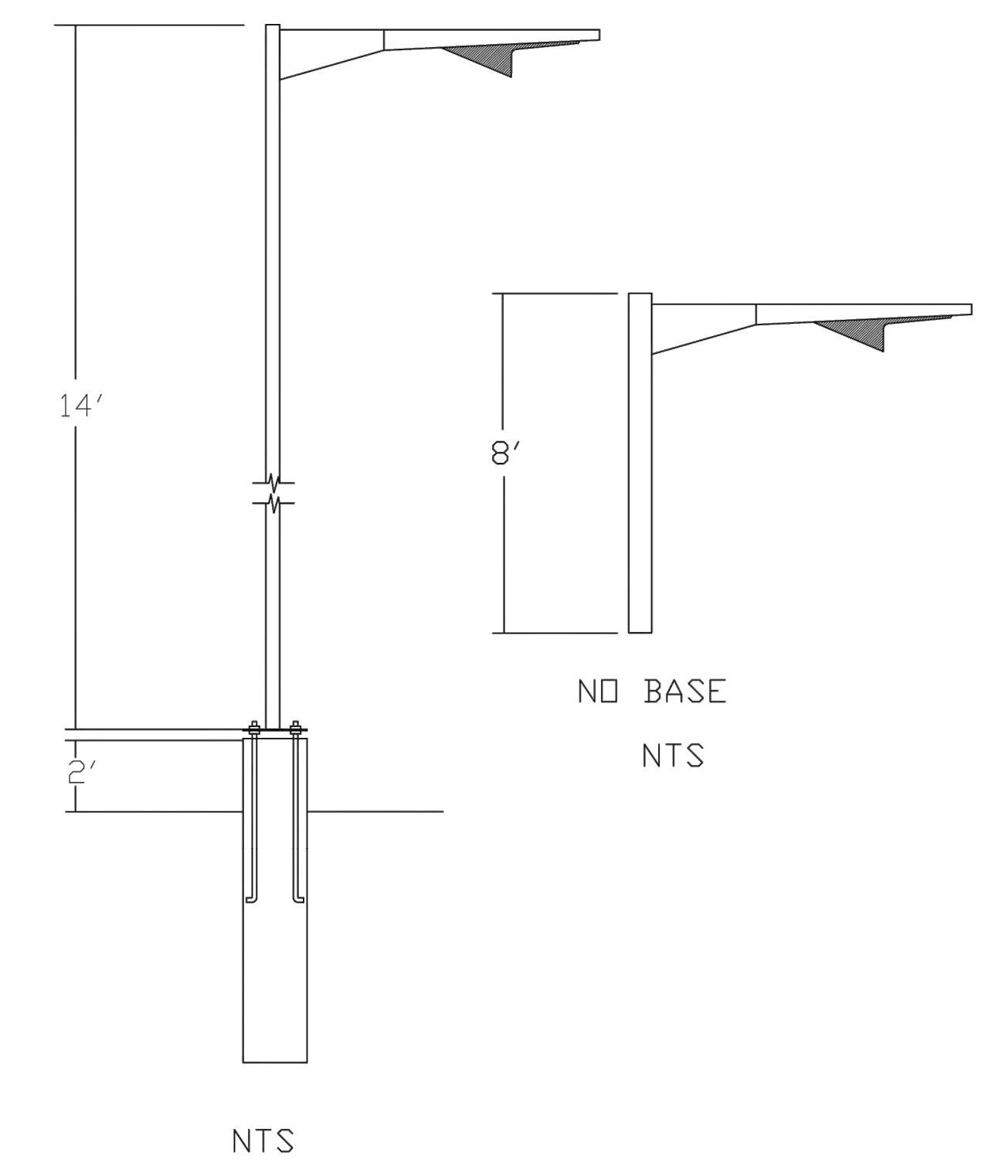
CRUS



XLCS



PWM



THIS IS NOT AN LSI RECOMMENDED LIGHTING DESIGN.
THIS DESIGN DOES NOT MEET RECOGNIZED INDUSTRY LIGHTING STANDARDS FOR THIS APPLICATION.

[Click photo to open Product Page](#)

Photometric data for fixture type "E" is based upon another manufacturer's test and as a result can not be verified by LSI Industries for this calculation.

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
ALL CALC POINTS AT GRADE	Illuminance	Fc	0.35	12.5	0.0	N.A.	N.A.
CIRCLE 1	Illuminance	Fc	3.98	7.0	0.4	9.95	17.50
CIRCLE 10	Illuminance	Fc	1.44	6.9	0.0	N.A.	N.A.
CIRCLE 2	Illuminance	Fc	3.90	7.2	0.4	9.75	18.00
CIRCLE 3	Illuminance	Fc	3.85	7.2	0.3	12.83	24.00
CIRCLE 4	Illuminance	Fc	3.85	7.3	0.5	7.70	14.60
CIRCLE 5	Illuminance	Fc	3.22	8.0	0.0	N.A.	N.A.
CIRCLE 6	Illuminance	Fc	3.22	8.0	0.3	10.73	26.67
CIRCLE 7	Illuminance	Fc	3.24	8.0	0.3	10.80	26.67
CIRCLE 8	Illuminance	Fc	3.29	7.9	0.3	10.97	26.33
CIRCLE 9	Illuminance	Fc	2.96	7.7	0.3	9.87	25.67
PAY CANDOPY	Illuminance	Fc	19.00	26.5	8.1	2.35	3.27
WALK ENT EXIT	Illuminance	Fc	5.88	6.9	4.5	1.31	1.53
WALK ENT EXIT_1	Illuminance	Fc	1.57	5.0	0.2	7.85	25.00
WALK ENT EXIT_2	Illuminance	Fc	3.56	4.9	2.1	1.70	2.33
WALK ENT EXIT_3	Illuminance	Fc	4.38	5.4	3.3	1.33	1.64
INSIDE CURB	Illuminance	Fc	2.06	12.5	0.0	N.A.	N.A.

Symbol	Qty	Label	Arrangement	Description	LLF	Arr. Lum. Lumens	Arr. Watts
	4	A	SINGLE	XLCS-FT-LED-SS-CW-HSS-SINGLE-14'POLE+2'BASE DIMMED 30%	0.700	9099	95.8
	6	B	SINGLE	XLCS-FT-LED-SS-CW-HSS-SINGLE-8'POLE NO BASE DIMMED 80%	0.200	9099	95.8
	3	C	SINGLE	CRUS-SC-LED-VLW-50 - 14' MH	1.000	9055	60.9
	4	D	SINGLE	PWM-S-LED-LW-CW MTD @ 10'	1.000	1440	15.1
	12	E	SINGLE	FREE VAC SIGN MTD @ 7'	1.000	53	1.4

Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine the applicability of the layout to existing or future field conditions.

This lighting plan represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with The Illuminating Engineering Society (IES) approved methods. Actual performance of any manufacturer's luminaires may vary due to changes in electrical voltage, tolerance in lamps/LEDs and other variable field conditions. Calculations do not include obstructions such as buildings, curbs, landscaping, or any other architectural elements unless noted. Fixture nomenclature noted does not include mounting hardware or poles. This drawing is for photometric evaluation purposes only and should not be used as a construction document or as a final document for ordering product.

Total Project Watts
Total Watts = 1217.9



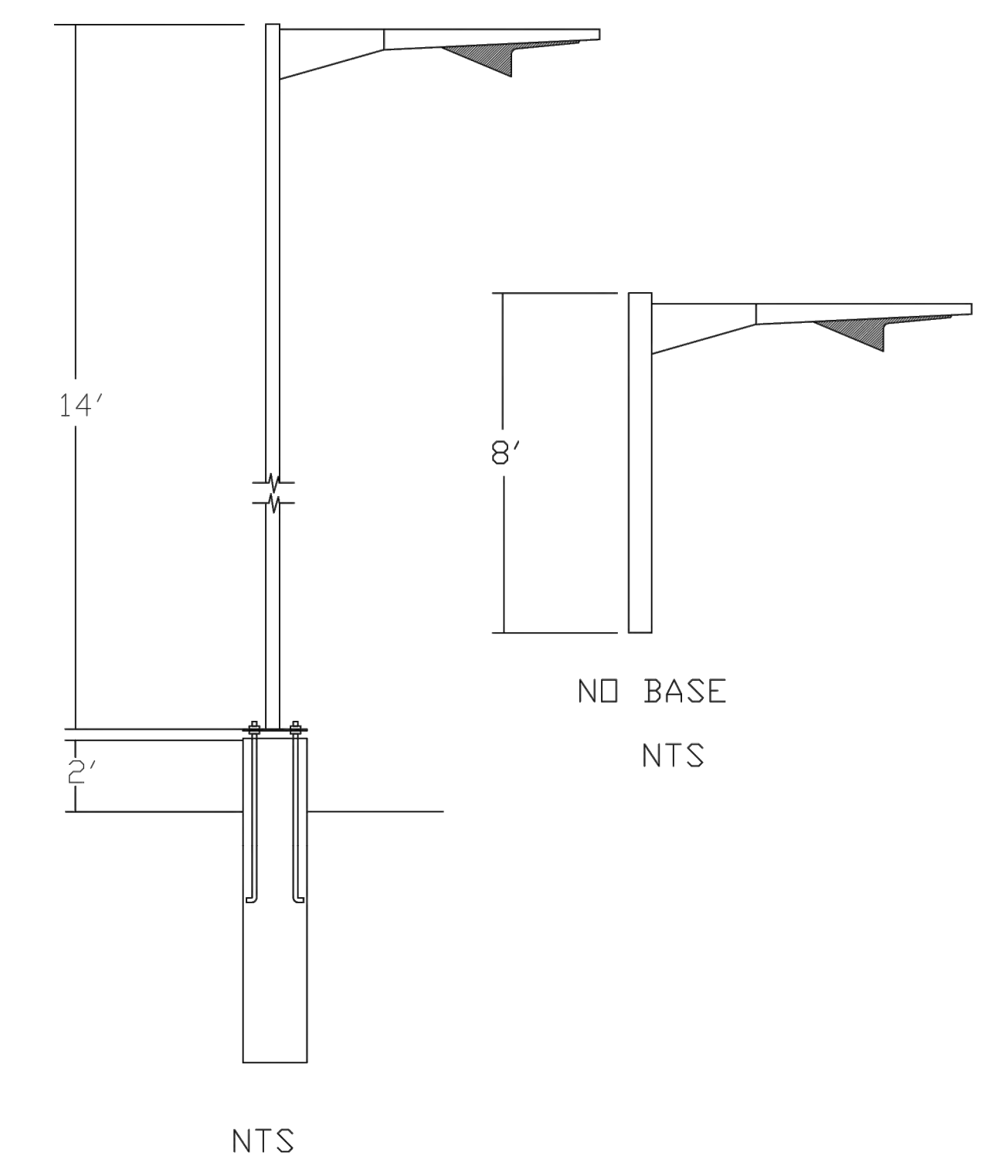
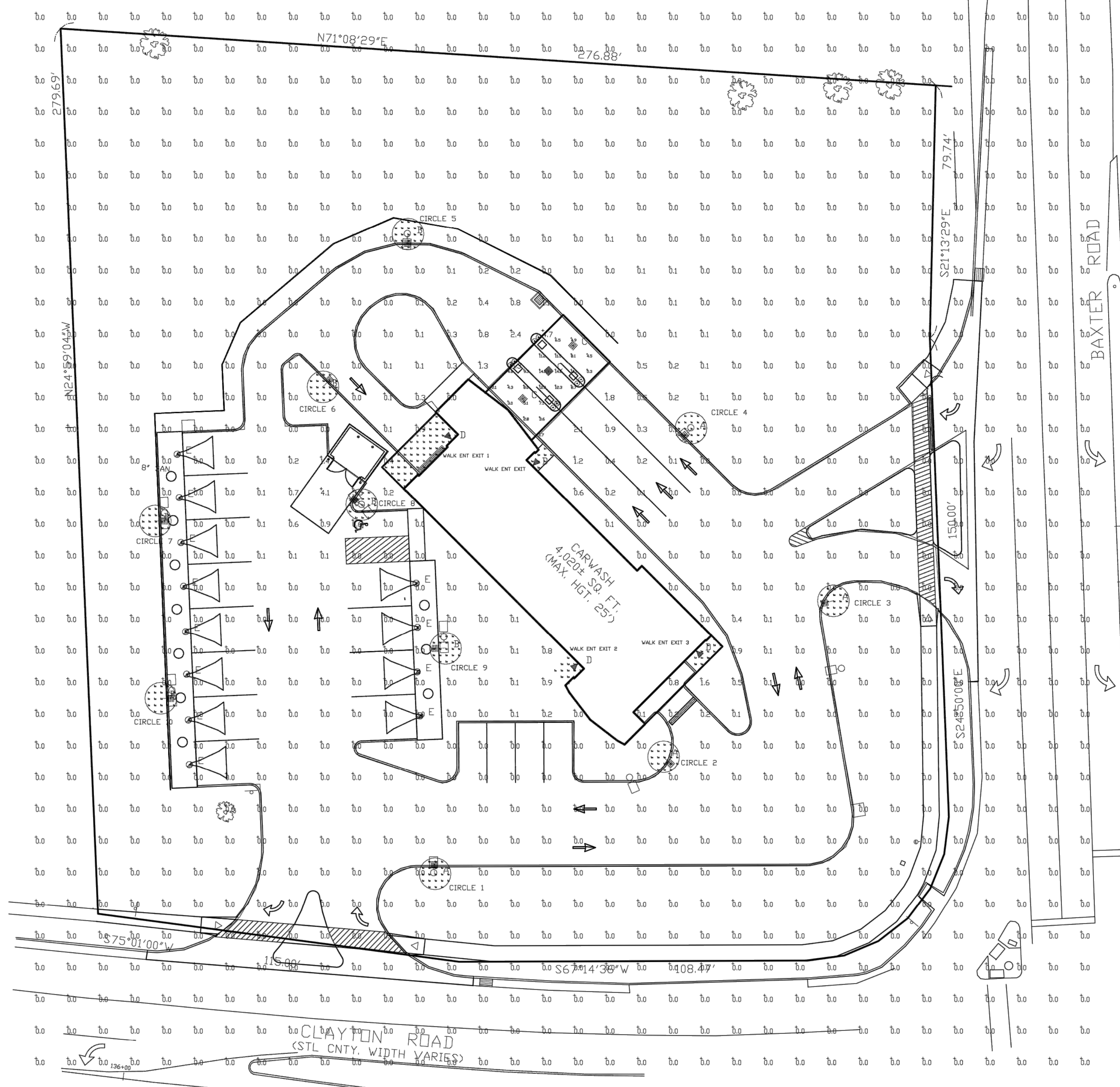
LIGHTING PROPOSAL LO-141527-2

BRIGHT WORK
14905 CLAYTON RD
CHESTERFIELD, MO

SCALE: 1"=20'

SHEET 1 OF 1

HAUTSIZE



THIS IS NOT AN LSI RECOMMENDED LIGHTING DESIGN.
THIS DESIGN DOES NOT MEET RECOGNIZED INDUSTRY LIGHTING STANDARDS FOR THIS APPLICATION.

Click photo to open Product Page

NIGHT LIGHTING (SECURITY)

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
ALL CALC POINTS AT GRADE	Illuminance	Fc	0.04	5.5	0.0	N.A.	N.A.
CIRCLE 1	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
CIRCLE 10	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
CIRCLE 2	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
CIRCLE 3	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
CIRCLE 4	Illuminance	Fc	0.08	0.1	0.0	N.A.	N.A.
CIRCLE 5	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
CIRCLE 6	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
CIRCLE 7	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
CIRCLE 8	Illuminance	Fc	3.28	7.9	0.3	10.93	26.33
CIRCLE 9	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
PAY CANOPY	Illuminance	Fc	7.33	14.6	1.7	4.31	8.59
WALK ENT EXIT	Illuminance	Fc	4.26	5.3	3.2	1.33	1.66
WALK ENT EXIT_1	Illuminance	Fc	1.55	5.0	0.2	7.75	25.00
WALK ENT EXIT_2	Illuminance	Fc	3.56	4.9	2.1	1.70	2.33
WALK ENT EXIT_3	Illuminance	Fc	3.63	4.8	2.0	1.82	2.40
INSIDE CURB	Illuminance	Fc	0.32	7.9	0.0	N.A.	N.A.

Symbol	Qty	Label	Arrangement	Description	LLF	Arr. Lum. Lumens	Arr. Watts
■	4	A	SINGLE	XLCS-FT-LED-SS-CW-HSS-SINGLE-14'POLE+2'BASE DIMMED 30%	0.700	9099	95.8
■	6	B	SINGLE	XLCS-FT-LED-SS-CW-HSS-SINGLE-8'POLE NO BASE DIMMED 80%	0.200	9099	95.8
■	3	C	SINGLE	CRUS-SC-LED-VLW-50 - 14' MH	1.000	9055	60.9
▲	4	D	SINGLE	PWM-S-LED-LW-CW MTD @ 10'	1.000	1440	15.1
○	12	E	SINGLE	FREE VAC SIGN MTD @ 7'	1.000	53	1.4

Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine the applicability of the layout to existing or future field conditions.

This lighting plan represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with The Illuminating Engineering Society (IES) approved methods. Actual performance of any manufacturer's luminaires may vary due to changes in electrical voltage, tolerance in lamps/LED's and other variable field conditions. Calculations do not include obstructions such as buildings, curbs, landscaping, or any other architectural elements unless noted. Fixture nomenclature noted does not include mounting hardware or poles. This drawing is for photometric evaluation purposes only and should not be used as a construction document or as a final document for ordering product.

Total Project Watts
Total Watts = 2171



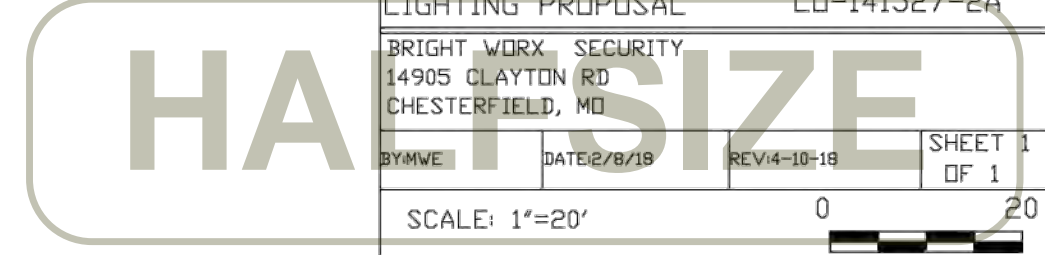
LIGHTING PROPOSAL LO-141527-2A

BRIGHT WORK SECURITY
14905 CLAYTON RD
CHESTERFIELD, MO

SCALE: 1"=20'

DATE: 2/28/19 REV: 10/18

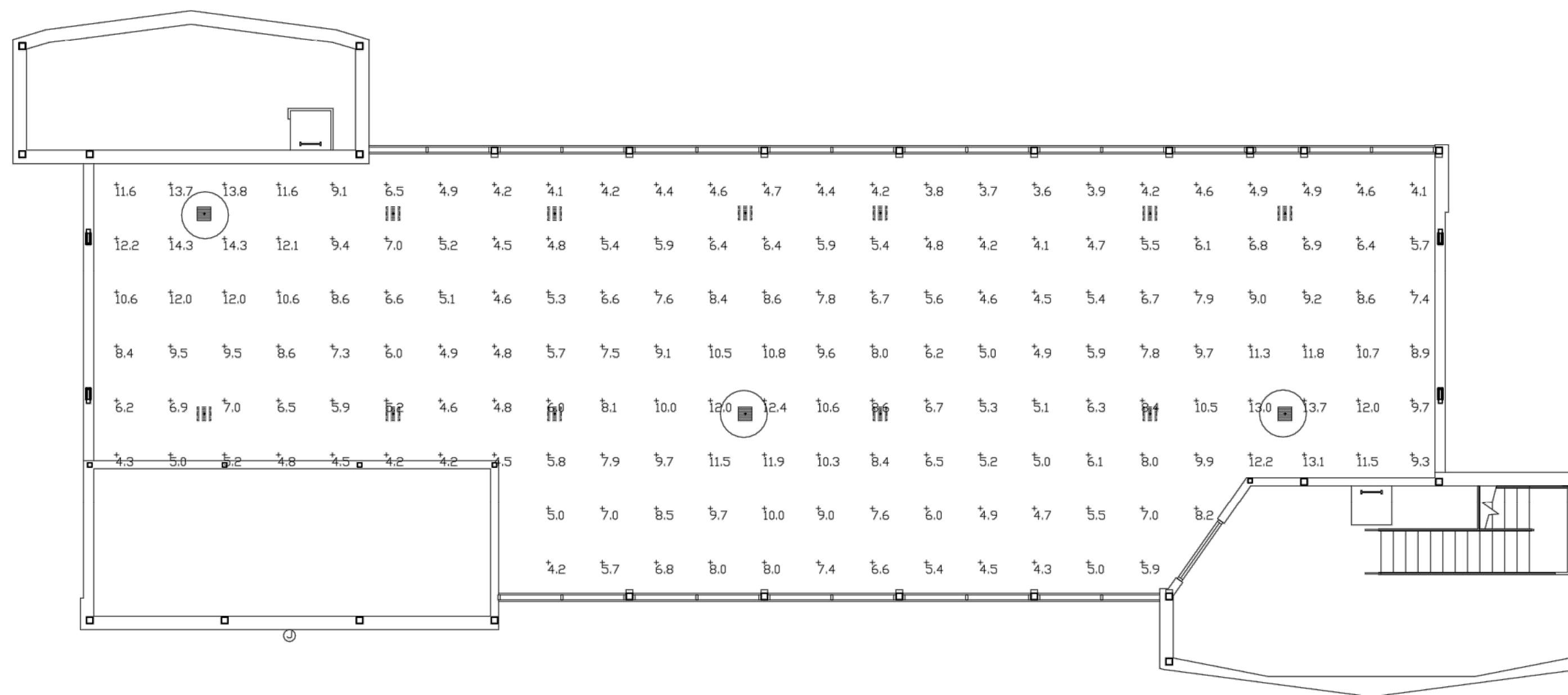
SHEET 1 OF 1





XPG3

Click photo to open Product Page



AFTER HOURS INTERIOR LIGHTING ONLY ILLUMINATION

○ SECURITY LIGHTS

Footcandle levels at grade.
 Reflectances: Ceiling-80% Walls-50% Floor-20%
 Room Height:18'
 Fixture Mtg.Ht.:15'

Symbol	Qty	Label	Arrangement	Description	LLD	LDD	BF	LLF	Lumens/Lamp	Arr. Lum. Lumens	Arr. Watts
	28	A	SINGLE	XPG3P-S-LED-68-450-CW-UE	1.000	1.000	1.000	1.000	N.A.	9580	97.8

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	
ALL LIGHTS ON_Floor	Illuminance	Fc	34.68	44.5	19.4	1.79	2.29	
SECURITY LIGHTS ONLY_Floor	Illuminance	Fc	7.28	14.3	3.6	2.02	3.97	

Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine the applicability of the layout to existing or future field conditions.

This lighting plan represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with The Illuminating Engineering Society (IES) approved methods. Actual performance of any manufacturer's luminaires may vary due to changes in electrical voltage, tolerance in lamps/LED's and other variable field conditions. Calculations do not include obstructions such as buildings, curbs, landscaping, or any other architectural elements unless noted. Fixture nomenclature noted does not include mounting hardware or poles. This drawing is for photometric evaluation purposes only and should not be used as a construction document or as a final document for ordering product.

Total Project Watts
 Total Watts = 16626



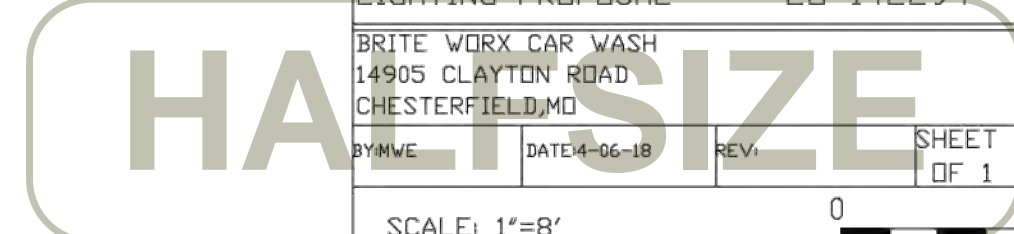
3802 ALLIANCE RD. CINCINNATI, OHIO 45242 USA
 (616) 792-8800 • FAX (616) 792-8802

LIGHTING PROPOSAL LD-142294

BRITE WORK CAR WASH
 14905 CLAYTON ROAD
 CHESTERFIELD, MO

BY: [Signature] DATE: 06-18 REV: [Signature] SHEET 1 OF 1

SCALE: 1"=8' 0 8



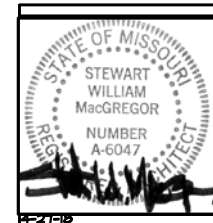


PRELIM

Car Washery

BRITE WORX

CAR WASH
 1405 CLAYTON ROAD
 CHESTERFIELD, MISSOURI 6307



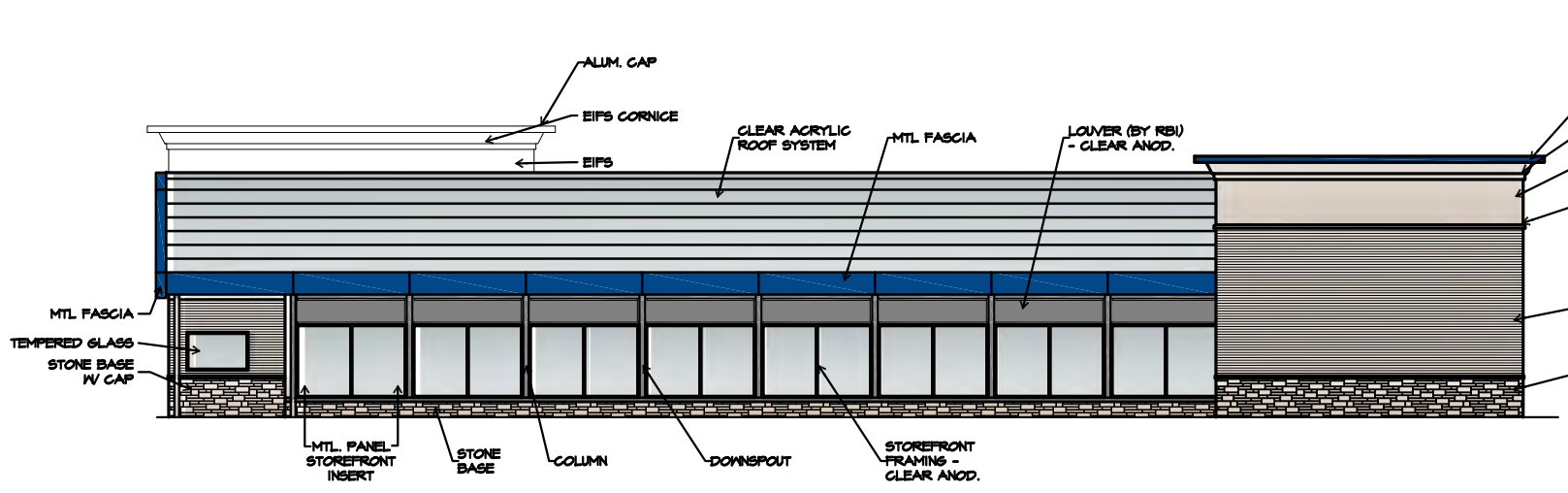
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DATE	11-30-17
DRAWN BY	JVF
CHECKED BY	SMM
REVISION	12-7-17
	8-28-18
	4-12-18
	4-27-18

A5.2

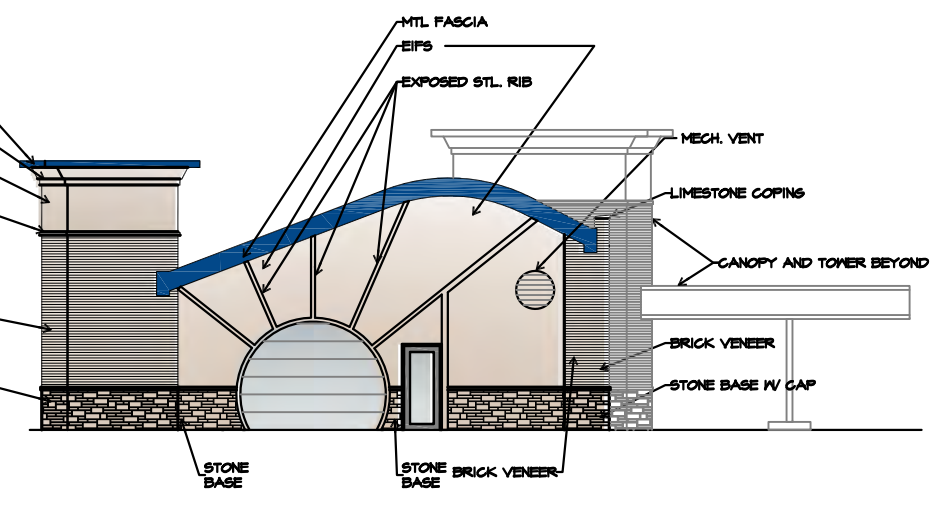
EXTERIOR ELEVATIONS

HALFS

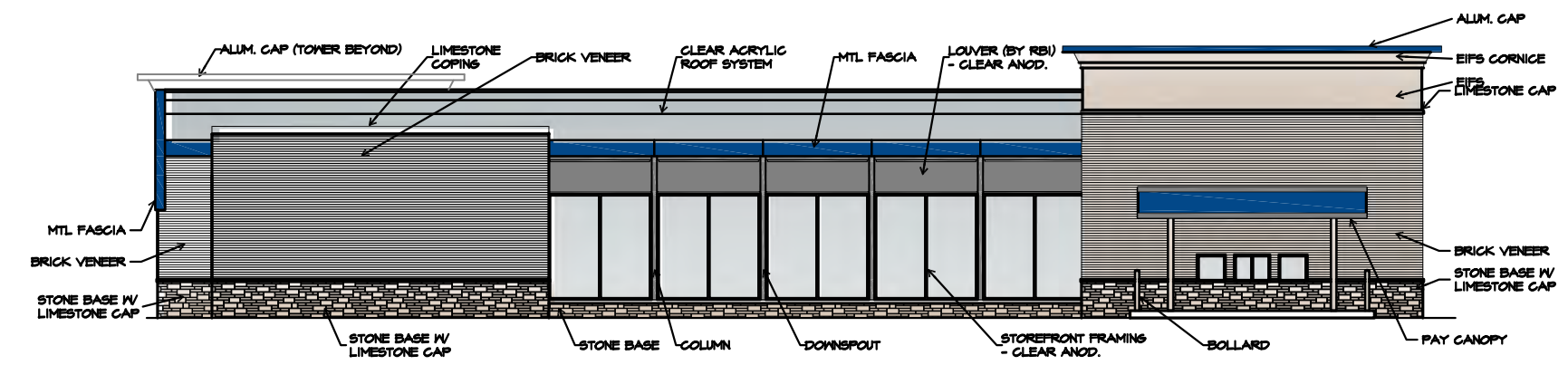
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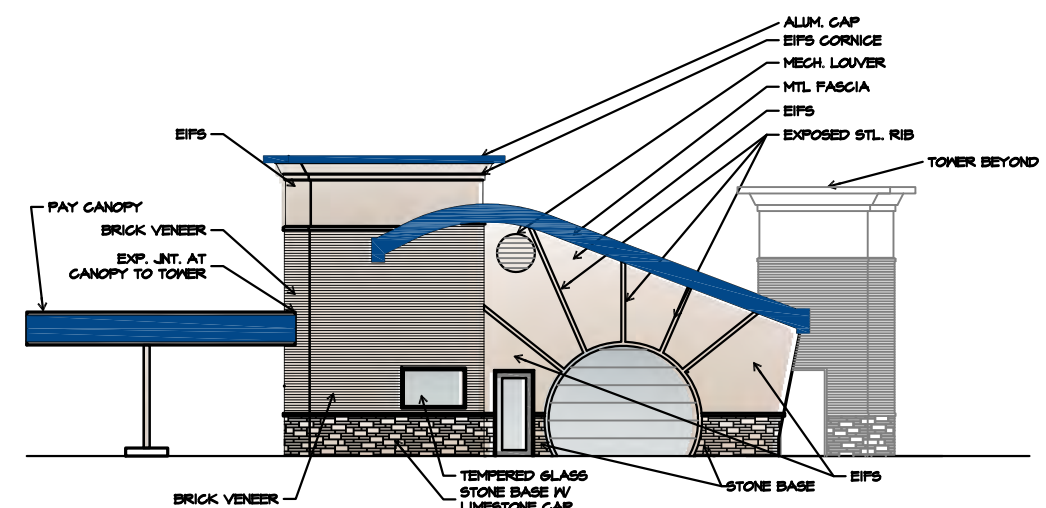
SOUTH ELEVATION
 SCALE: 1/8" = 1'-0"



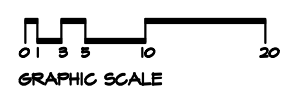
EAST ELEVATION
 SCALE: 1/8" = 1'-0"



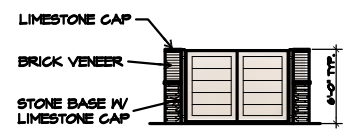
NORTH ELEVATION
 SCALE: 1/8" = 1'-0"



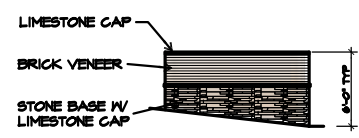
WEST ELEVATION
 SCALE: 1/8" = 1'-0"



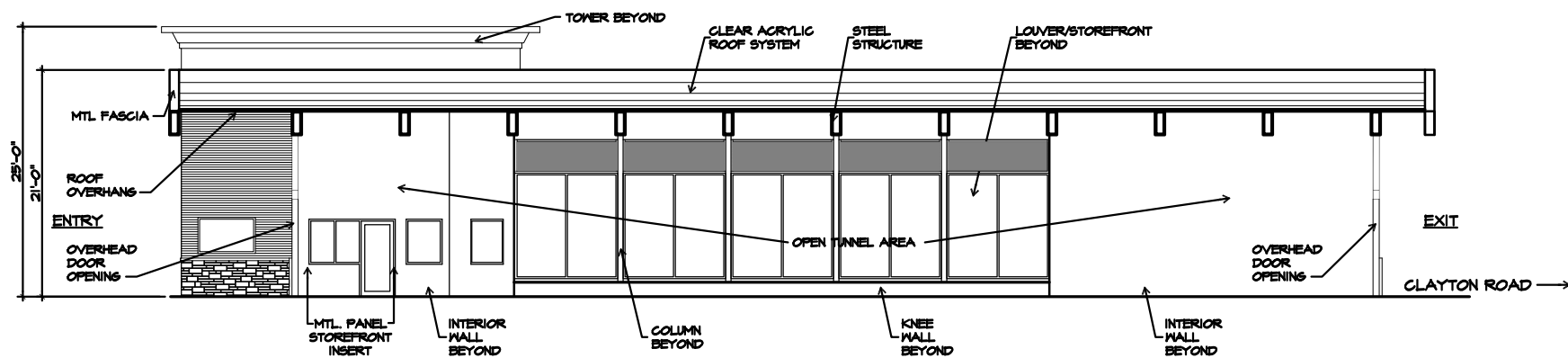
EXTERIOR FINISH LEGEND				
STONE BASE: ELDORADO STONE STYLE: EUROPEAN LEDGE COLOR: LINEN (OR EQUAL)	LIMESTONE SILL: INDIANA LIMESTONE STYLE: ROCK FACED CUT COLOR: OFF WHITE (OR EQUAL)	EIFS: DRYVIT STYLE: DRYVIT PLUS, SANDELAST TEXTURE COLOR: #111 PRAIRIE CLAY (OR EQUAL)	ALUMINUM STOREFRONT: KAMNEER COLOR: CLEAR ANODIZED ALUMINUM FINISH (OR EQUAL)	PREFINISHED MTL FASCIA: RB1 COLOR: PANTONE 29, BLUE (OR EQUAL)
BRICK VENEER: MERIDIAN BRICK STYLE: CANADA ARCHITECTURAL SERIES COLOR: ADELAIDE SMOOTH IRONSPOT MORTAR TO MATCH BRICK (OR EQUAL)	LIMESTONE CAP/COPING: INDIANA LIMESTONE STYLE: SMOOTH FACED CUT COLOR: OFF WHITE (OR EQUAL)	TUNNEL ROOF: ACRYLIC STYLE: CLEAR (OR EQUAL)	PREFINISHED MTL COPING: PETERSON COLOR: PANTONE 29, BLUE (OR EQUAL)	



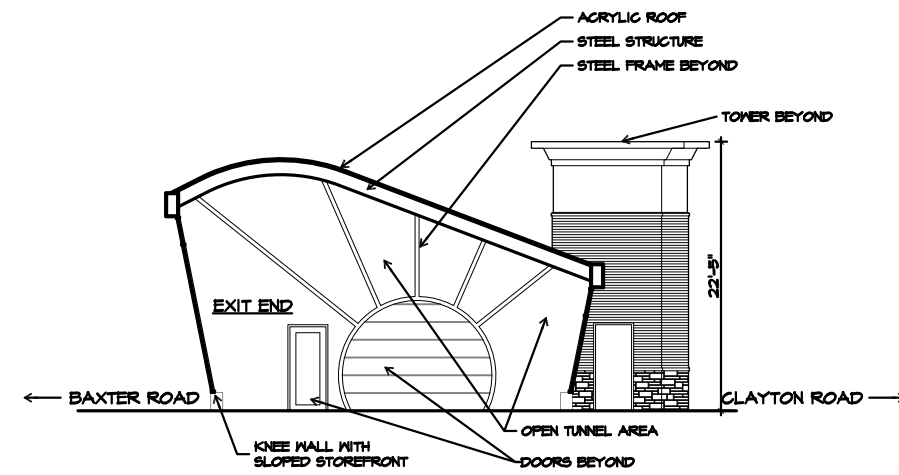
SOUTH ELEVATION TRASH
 SCALE: 1/8" = 1'-0"



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



SECTION LOOKING NORTH
SCALE: 1/8" = 1'-0"



SECTION LOOKING EAST
SCALE: 1/8" = 1'-0"

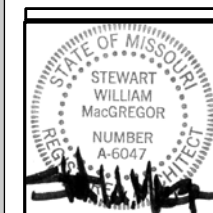
PRELIM

Car Washery

BRITE WORX

CAR WASH

1400S CLAYTON ROAD
CHESTERTFIELD, MISSOURI 63077



PROJECT NUMBER 17B6
DATE 11-30-17
DRAWN BY JVF
CHECKED BY SWM
REVISION 4-27-18

A5.3

BUILDING SECTIONS

HALFS







SITE ELEMENT EXAMPLES

RETAINING WALL



ARTISAN FENCE



TRASH ENCLOSURE



ARCHITECTURAL
BUILDING MATERIALS

Chesterfield Brite Worx Materials



Dryvit, 111 Prairie Clay

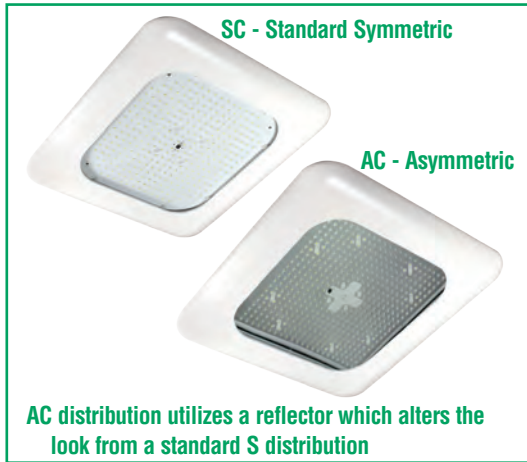


Meridian Brick, Canada Architectural Series, Adelaide Smooth Ironspot



Eldorado Stone, European Ledge, Linen

LED CANOPY LIGHT - LEGACY™ (CRUS)



DOE LIGHTING FACTS

Department of Energy has verified representative product test data and results in accordance with its Lighting Facts Program. Visit www.lightingfacts.com for specific catalog strings.

US & Int'l. patents pending.

HOUSING - Low profile, durable die-cast, aluminum construction, providing a reliable weather-tight seal.

LEDS - Features an array of select, mid-power, high brightness, high efficiency LED chips; 5000K color temperature, 70 CRI (nominal).

DRIVE CURRENT - Choice of Very Low Wattage (VLW), Low Wattage (LW), Super Saver (SS), High Output (HO) or Very High Output (VHO).

OPTICS / DISTRIBUTION - Choice of Symmetrical or Asymmetrical, which directs light through a clear tempered glass lens, to provide a uniform distribution of light to vertical and horizontal surfaces.

OPTICAL UNIT - Features an ultra-slim 7/8" profile die-cast housing, with a flat glass lens. Unit is water-resistant, sealed to an IP67 rating. Integral designed heat sink does not trap dirt and grime, ensuring cool running performance over the life of the fixture.

PRESSURE STABILIZING VENT - Luminaire assembly incorporates a pressure stabilizing vent breather to prevent seal fatigue and failure.

HAZARDOUS LOCATION - Designed for lighter than air fuel applications. Product is suitable for Class 1 Division 2 only when properly installed per LSI installation instructions (consult factory).

DRIVER - State-of-the-art driver technology superior energy efficiency and optimum light output. Driver components are fully encased in potting for moisture resistance. Complies with IEC and FCC standards. 0-10 V dimming supplied standard with all drive currents.

DRIVER HOUSING - Die-cast aluminum, wet location rated driver/electrical enclosure is elevated above canopy deck to prevent water entry, provide easy "knock-out" connection of primary wiring and contributes to attaining the lowest operating temperatures available. Seals to optical housing via one-piece molded silicone gasket.

OPERATING TEMPERATURE - -40°C to 50°C (-40°F to +122°F)

ELECTRICAL - Universal voltage power supply, 120-277 VAC, 50/60 HZ input. Drivers feature two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Scenario 1, Location Category C.

FINISH - Standard color is white and is finished with LSI's DuraGrip® polyester powder coat process. DuraGrip withstands extreme weather changes without cracking or peeling.

INSTALLATION - One person installation. No additional sealant required. Installs in a 12" or 16" deck pan. Deck penetration consists of a 4" hole, simplifying installation and water sealing. Unit is designed to quickly retrofit into existing Scottsdale (4") hole as well as openings for Encore and Encore Top Access and to reconnect wiring for the SC/ECTA without having to relocate the conduit. Retro panels are available for existing Encores (see back page) as well as kits for recessed and 2x2 installations (see separate spec sheets). Support brackets are provided standard, to prevent sagging of deck.

SHIPPING WEIGHT - 27 pounds (single pack), 48 pounds (double pack).

EXPECTED LIFE - Minimum 60,000 to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

WARRANTY - Limited 5-year warranty.

LISTING - UL and ETL listed to UL 1598, UL 8750 and other U.S. and International safety standards. Suitable for wet locations.

PHOTOMETRICS - Please visit our web site at www.lsi-industries.com for detailed photometric data.

Consult Factory

Class 1, Division 2 – Available on LW and SS

T5 Temperature Classification – The surface temperature of this product will not rise above 100°C., within a 40°C ambient.

Gas Groups A,B,C, and D – Group A: Acetylene / Group B: Hydrogen / Group C: Propane and Ethylene / Group D: Benzene, Butane, Methane & Propane.

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.



IP67



Project Name _____ Fixture Type _____
Catalog # _____

08/28/17

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LSI INDUSTRIES INC.

LED CANOPY LIGHT - LEGACY™ (CRUS)

LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **CRUS SC LED HO 50 UE WHT**

Prefix	Distribution ¹	Light Source	Drive Current	Color Temperature	Input Voltage	Finish	Options
CRUS	SC - Standard Symmetric AC - Asymmetric	LED	VLW - Very Low Watt LW - Low Watt SS - Super Saver HO - High Output VHO - Very High Output	50 - 5000K	UE - Universal Voltage (120-277V) 347 - 480V	WHT - White BRZ - Bronze BLK - Black	HL - Hazardous location available on LW and SS

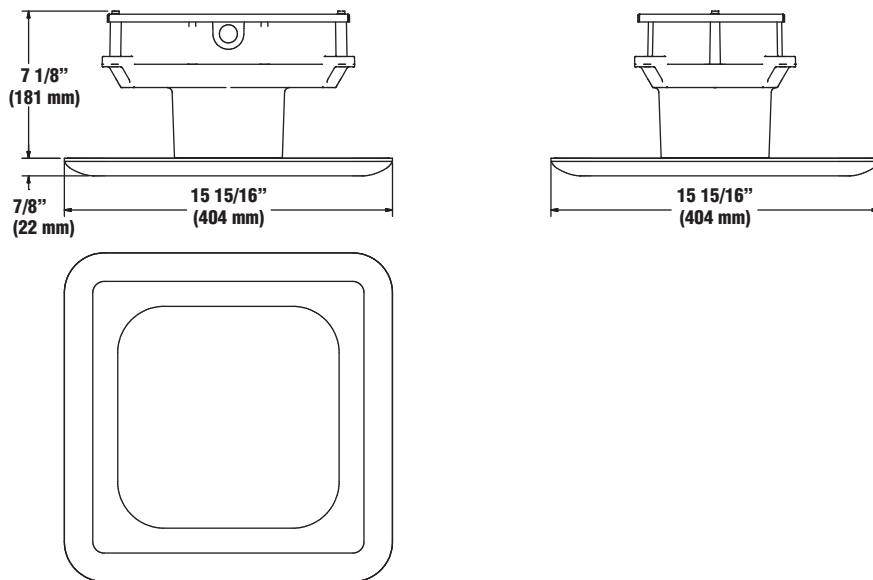
FOOTNOTES:

1- AC distribution utilizes a reflector which alters the look from a standard S distribution.

ACCESSORY ORDERING INFORMATION (Accessories are field installed)

Description	Order Number	Description	Order Number
Retrofit Panels - EC / ECTA / SCF to CRU, for 16" Deck Panel	525946	Kit - Hole Plugs and Silicone (enough for 25 retrofits) ¹	1320540
Retrofit Panels - ECTA / SCF to CRU, for 12" Deck Panel	530281	1- Consists of (25) 7/8" hole plugs and (1) 10.3 oz tube of RTV	
Retrofit 2x2 Cover Panel Blank (no holes)	357282		
Retrofit RIC Cover Panel Blank (no holes)	354702		

DIMENSIONS



LIGHT OUTPUT - CRUS

		Lumens		Watts	LPW	
		SC	AC	SC/AC	SC	AC
Cool White	VLW - Very Low Watt	9055	7632	61	148	125
	LW - Low Watt	10525	8884	74	142	120
	SS - Super Saver	13674	11595	98	140	118
	HO - High Output	18633	15145	132	141	115
	VHO - Very High Output	22418	17262	159	141	109



Project Name _____ Fixture Type _____
Catalog # _____

08/28/17
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LSI INDUSTRIES INC.

LED WALL SCNCE (PWM)



DOE LIGHTING FACTS

Department of Energy has verified representative product test data and results in accordance with its Lighting Facts Program. Visit www.lightingfacts.com for specific catalog strings.

LIGHT OUTPUT - PWM			
Distribution/Lumens (Nominal)			
		Type S	Watts
Cool White	LW	1400	15
	HO	5200	56
Neutral White	LW	1300	15
	HO	4900	56

LED Chips are frequently updated therefore values may increase.

US & Int'l. patents pending

ENERGY SAVING CONTROL OPTIONS – DIM – 0-10 volt dimming enabled with controls by others.

EXPECTED LIFE - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

LEDS - Available with select high-brightness LEDs in Cool White (5000K) or Neutral White (4000K) color temperature, 70 CRI.

DISTRIBUTION/PERFORMANCE - Type S (Standard Symmetric). Exceptional uniformity creates bright environment at lower light levels.

HOUSING - One-piece die-cast aluminum housing is smoothly contoured rectangular shape. Mounting hardware is stainless steel or electro-zinc plated steel. Housing and optical unit are sealed with extruded silicone gasket; supply conductors with molded EPDM bushing.

OPTICAL UNIT - Clear tempered optical-grade flat glass lens sealed to the aluminum optic housing creates an IP65 rated unit. Pressure stabilizing breather allows super-tight protection while preventing cycling from building up internal pressures and vacuums that can stress optical unit seals.

WALL MOUNTING - Galvanized-steel universal wall mounting plate easily mounts directly to 4" octagonal or square junction box. EPDM gasket is supplied to be installed between mounting plate and junction box, sealing junction box from entrance of water. Universal plate permits fixture to be mounted in uplighting (indoor only) or downlighting position.

POLE MOUNTING - XPMA (for square) or XPMAR (for round) allows mounting to poles in single and D180 configurations. Use with 3" reduced drilling pattern.

ELECTRICAL - Two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Location Category C. Available with universal voltage power supply 120-277VAC (50/60Hz input) or 347-480VAC.

DRIVER - Available in Low Wattage (LW) and High Output (HO) drive currents (Drive currents are factory programmed). Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver can be easily accessed and removed. Optional 0-10V dimming available with controls by others.

OPERATING TEMPERATURE - -40°C to +50°C (-40°F to +122°F)

FINISH - Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling.

WARRANTY - LSI LED fixtures carry a limited 5-year warranty.

PHOTOMETRICS - Please visit our web site at www.lsi-industries.com for detailed photometric data.

SHIPPING WEIGHT (in carton) - 27 lbs./12.2Kg

LISTING - UL listed to ANSI/UL1598, UL8750 and other U.S. and international safety standards. Suitable for wet locations in downlight position. For a list of the specific products in this series that are DLC listed, please consult the LED Lighting section of our website or the Design Lights website at www.designlights.org.

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.



Project Name _____ Fixture Type _____
 Catalog # _____

07/28/16

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 LSI INDUSTRIES INC.

LED WALL SCONCE (PWM)

LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **PWM S LED HO CW UE WHT PCI 120**

Prefix	Distribution	Light Source	Drive Current	Color Temperature	Input Voltage	Finish	Optional Controls	Optional Sensor/Options
PWM - LED Wall Sconce	S - Standard Symmetrical	LED	LW - Low Watt HO - High Output	CW - Cool White (5000K) NW - Neutral White (4000K)	UE - Universal Voltage (120-277) 347-480 120 ¹	BLK - Black BRZ - Bronze GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White	Wireless Control System ^{2,3} (blank) - None PCM - Platinum Control System PCMH - Host/Satellite Platinum Control System GCM - Gold Control System GCMH - Host/Satellite Gold Control System DIM - 0-10 volt dimming (required for satellite fixtures) Stand-Alone Control (blank) - None DIM - 0-10 volt dimming (from external signal)	Sensor PCI120 - 120V Button-Type Photocell PCI208 - 208V Button-Type Photocell PCI240 - 240V Button-Type Photocell PCI277 - 277V Button-Type Photocell PCI347 - 347V Button-Type Photocell Options XPMA - Pole Mounting Adaptor w/ Fixture Back Plate for Use with Square Poles ⁴ XPMAR4 - Pole Mounting Adaptor w/ Fixture Back Plate for Use with 4" O.D. Round Poles ⁴ XPMAR5 - Pole Mounting Adaptor w/ Fixture Back Plate for Use with 5" O.D. Round Poles ⁴

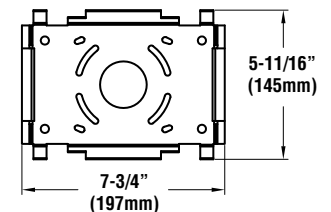
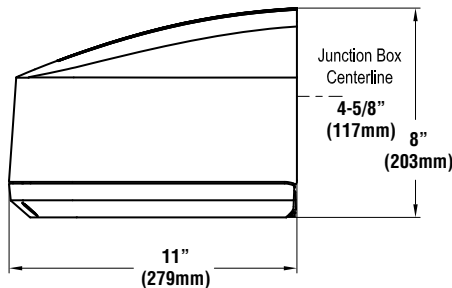
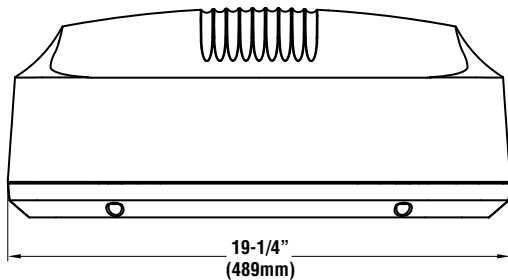
ACCESSORY ORDERING INFORMATION² (Accessories are field installed)

Description	Order Number	Description	Order Number
PWM Polycarbonate Shield	244657	DFK208, 240 - Double Fusing	DFK208,240 ⁵
PWM SW BLK - Surface Wiring Box (Available in black only)	356915BLK	DFK480 - Double Fusing	DFK480 ⁵
FK120 - Single Fusing	FK120 ⁵	FK347 - Single Fusing	FK347 ⁵
FK277 - Single Fusing	FK277 ⁵		

FOOTNOTES:

- 1- On Low Watt (LW) drive current, 120V only is DLC qualified. Specify 120 in place of UE.
- 2- For wireless controls information and accessories, see Controls section.
- 3- Requires a SiteManager and override switch.
- 4- Designed with 3" reduced drilling pattern. For S or D180 mounting configuration only.
- 5- Fusing to be installed in a compatible junction box supplied by contractor.

DIMENSIONS



Universal Mounting Plate

BUG LISTING

PWM - TYPE S

Drive Current	Color Temp.*	Lumens	Watts	LER	BUG Rating
HO	CW	5184	56	93	B2-U0-G1
	NW	4917	56	88	B2-U0-G1
SS	CW	1439	15	95	B1-U0-G0
	NW	1310	15	85	B1-U0-G0

* Color Temperature: NW-4000K, CW-5000K



Project Name _____ Fixture Type _____
Catalog # _____

07/28/16
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LSI INDUSTRIES INC.

LED GEN3 PARKING GARAGE LIGHT (XPG3)



DOE LIGHTING FACTS

Department of Energy has verified representative product test data and results in accordance with its Lighting Facts Program. Visit www.lightingfacts.com for specific catalog strings.

LIGHT OUTPUT - XPG3					
		# of LEDs	Lumens (Nominal)		Watts
			Type 5	Type S	
Cool White	350 mA	50	4718	6187	56
		68	5814	7512	75
	450 mA	50	5743	7606	73
		68	7082	9580	98
	550 mA	50	6656	8952	90
		68	8397	10712	125
Neutral White	350 mA	50	4245	5998	56
		68	5695	7051	75
	450 mA	50	5137	7313	73
		68	6919	8584	98
	550 mA	50	5950	8456	90
		68	7875	9880	125

LED Chips are frequently updated therefore values may increase.

US patent D603081 & D611188 & 7828456 and US & Int'l. patents pending

SMARTTEC™ ENERGY SAVING FEATURES:

THERMAL CONTROL -LSI drivers feature integral sensor which reduces drive current, when ambient temperatures exceed rated temperature.

OCCUPANCY SENSING (IMS) - Optional internal passive infrared motion sensor activated switching of luminaire light levels. High level light is activated when automobile or passerby enters sensor target zone. High light level is increased to full bright in 1-2 seconds upon detection. Low light level (30% of maximum drive current) is activated when target zone is absent of motion activity for ~ 2 minutes. Upon inactivity, light level is gradually ramped down (10-15 sec.) to low level to allow eyes time to adjust. Two sensor detection optics are available. The wide optic has a coverage range of 40 feet diameter at mounting heights of 8 feet to 12 feet. The narrow optic has a coverage range of 20 feet diameter at a mounting height of 8 feet to 12 feet.

DIMMING (DIM) - Optional 0-10 volt dimming enabled, with controls.

BI-LEVEL SWITCHING (BLS) - Optional bi-level switching responds to external line voltage signal from separate controller or sensor, with low light level decreased to 30% maximum drive current.

EXPECTED LIFE - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

LEDS - Two LED array choices; 50 and 68. Each feature high-brightness LEDs in Cool White (5000K) or Neutral White (4000K) color temperature, 70 CRI.

DRIVER CURRENT OPTIONS - Available in 350mA, 450mA or 550mA drive currents.

DISTRIBUTION/PERFORMANCE - Ultra-high efficiency reflectors provide solid performance for typical spacings and heights, exceptional uniformity with vertical illumination and full cutoff. Ideal when maximum spacing is desired without sacrificing desired lumen levels. Meets RP20 recommendations while delivering unique control of distribution to minimize glare. Optional diffused lens available to reduce visibility of diodes.

HOUSING/OPTICAL UNIT - The XPG3 features a slim 7-1/8" profile. Housing is die-formed aluminum with a gasketed clear flat tempered glass lens providing a water-resistant seal. Weather-tight aluminum enclosure contains factory prewired driver to ensure no water entry and to eliminate need to open fixture completely. Optical unit is IP67 rated.

MOUNTING - Not intended for recessed mounting in enclosed ceilings. Standard mounting is rigid 3/4" pendant mount or direct surface mount to 4" (102mm) octagon box (box by others). Pendant and direct mount standard with 48" leads and 8" leads respectively. Direct mount features standard quick mount plate with elongated key hole slots to allow alignment of fixtures.

ELECTRICAL - Universal voltage power supply (120-277 VAC, 50/60 Hz). Two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Scenario 1, Location Category C. Emergency LED battery back-up/driver operates 10 LEDs for a minimum of 90 minutes when primary AC power failure occurs.

DRIVER - Proprietary, state-of-the-art SmartTec driver technology designed specifically for LSI LED light sources provides unsurpassed system efficiency. Driver will operate with input of 120V thru 277V (50/60 Hz). LSI components are fully encased in potting material for IP65 moisture resistance. Driver complies with IEC and FCC standards.

OPERATING TEMPERATURE - -40°C to +50°C (-40°F to +122°F).

FINISH - Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling.

WARRANTY - Limited 5-year warranty.

PHOTOMETRICS - Please visit our web site at www.lsi-industries.com for detailed photometric data.

SHIPPING WEIGHT - Standard fixture 21 lbs. (9.5 kg). Fixtures with battery back-up 28 lbs. (13 kg)

LISTING - ETL listed to U.S. and International safety standards. Suitable for wet locations. For a list of the specific products in this series that are DLC listed, please consult the LED Lighting section of our website or the Design Lights website at www.designlights.org.

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.



Intertek
wet location
IP65
IP67



Project Name _____ Fixture Type _____
Catalog # _____

05/02/16
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LSI INDUSTRIES INC.

LED GEN3 PARKING GARAGE LIGHT (XPG3)

LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **XPG3P 5W LED 68 450 CW UE WHT DIM**

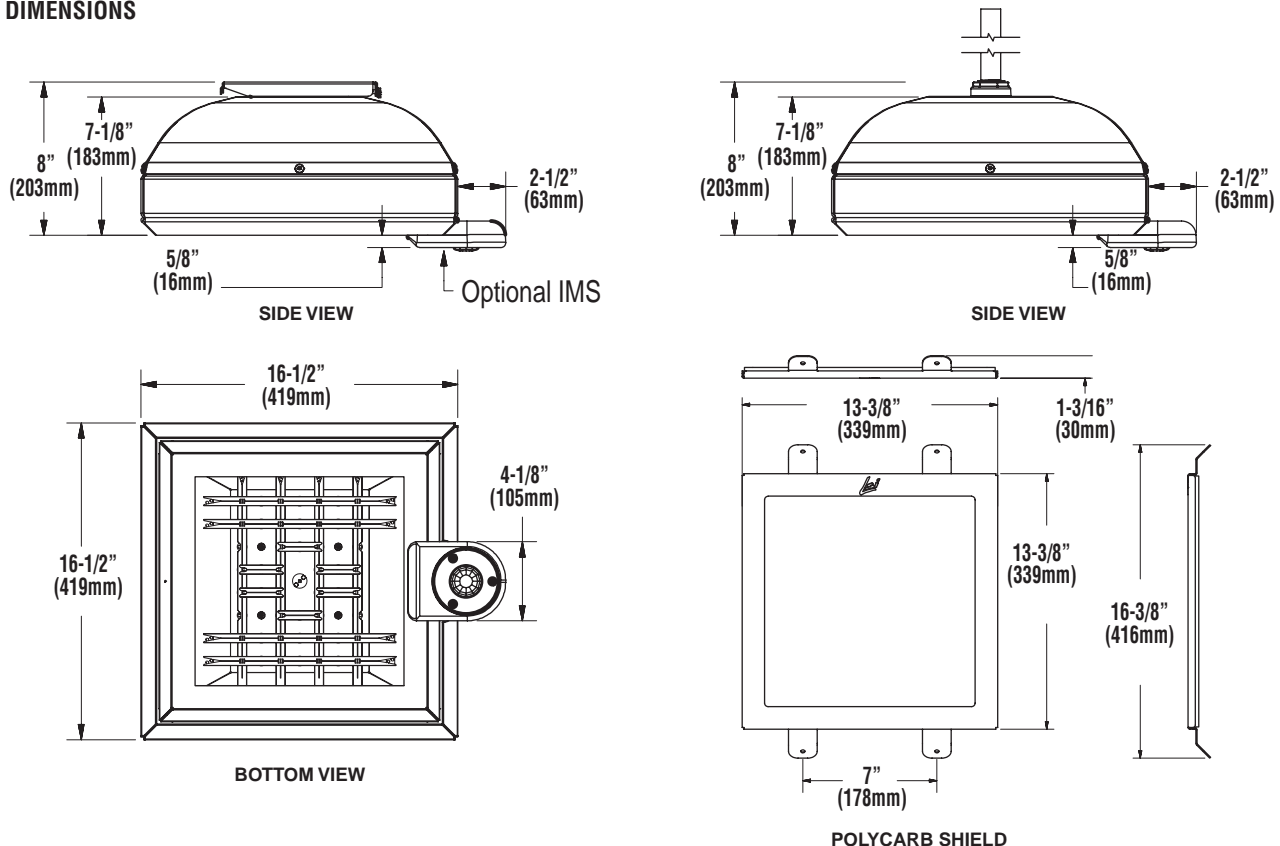
Prefix	Distribution	Light Source	# of LEDs	Drive Current	Color Temperature	Input Voltage	Finish	Optional Controls	Optional Sensors/Options
XPG3D Direct Mount	5W - Type 5 Wide S - Symmetric	LED	50 68	350 - 350mA 450 - 450mA 550 - 550mA	CW - Cool White (5000K) NW - Neutral White (4000K)	UE - Universal Electronic (120-277)	WHT - White BLK - Black MSV - Metallic Silver	Wireless Control System ^{2,3} (blank) - None PCM - Platinum Control System PCMH - Host / Satellite Platinum Control System GCM - Gold Control System GCMH - Host / Satellite Gold Control System ⁴ DIM - 0-10 volt dimming (required for satellite fixtures)	Sensor IMS - Integral Motion Sensor ^{7,8}
XPG3P ¹ Pendant Mount						347 - 347 volt 480 - 480 volt			

ACCESSORY ORDERING INFORMATION		(Accessories are field installed)	
Description	Order Number	Description	Order Number
XPG3 Bird Guard	XPG3 BG	RPSB120 - WL Remote Box with 120V External Photocell	C/F ¹¹
Polycarb Shield	XPG PCS ⁸	RPSB208-277 - WL Remote Box with 208-277V External Photocell	C/F ¹¹
ROSB120 - WL Remote Box with 120V Occupancy Sensor	C/F ¹¹		
ROSB277 - WL Remote Box with 277V Occupancy Sensor	C/F ¹¹		

FOOTNOTES:

- Pendant stems must be ordered separately; specify length.
- For wireless controls information and accessories, see Controls section.
- Requires a SiteManager and override switch. Not compatible with BLS or IMS option.
- Consult factory for available configurations.
- Not compatible with IMS or BLS option.
- Not compatible with wireless controls system, DIM or IMS option.
- Not compatible with wireless controls system, DIM or BLS option.
- Polycarbonate Shield not available with IMS
- Battery Backup & cold weather battery backup available in UE only. Not available with PCM or GCM wireless controls.
- Diffused lens reduces light output. Consult factory.
- Includes PCM or GCM. To be used in conjunction with PCM or GCM options in the fixture. Consult factory.

DIMENSIONS

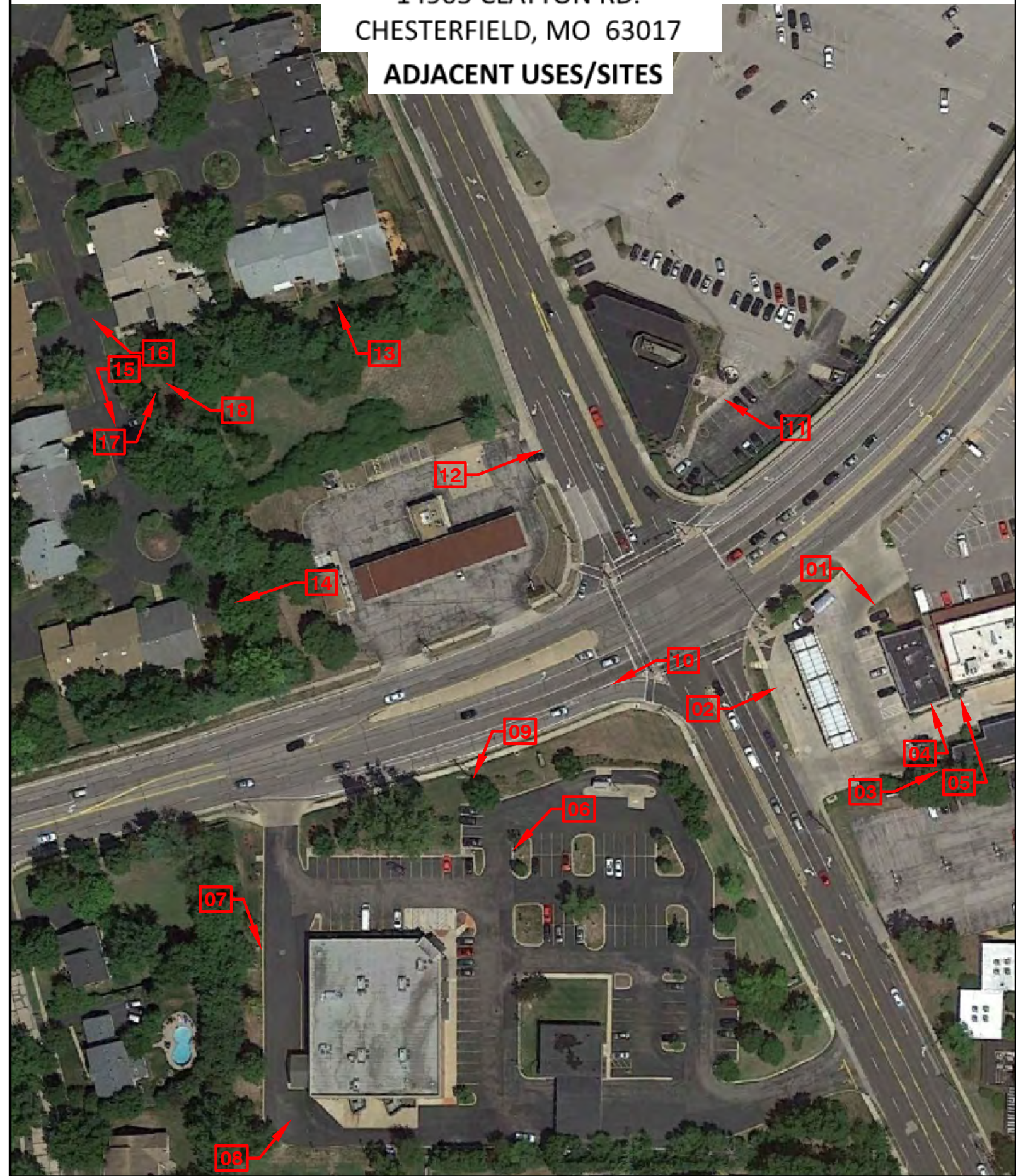


Project Name _____ Fixture Type _____
 Catalog # _____

PHOTO KEY

BRITE WORX CAR WASHERY
14905 CLAYTON RD.
CHESTERFIELD, MO 63017

ADJACENT USES/SITES



BRITE WORX CAR WASHERY
14905 CLAYTON RD.
CHESTERFIELD, MO 63017

ADJACENT USES/SITES

PETRO-MART - SOUTHEAST CORNER OF BAXTER & CLAYTON

01



02



03



04



05



WALGREENS & BANK OF AMERICA- SOUTHWEST CORNER OF BAXTER
06 & CLAYTON



07



08



09



10



11 OFFICE BUILDING - NORTHEAST CORNER OF BAXTER & CLAYTON



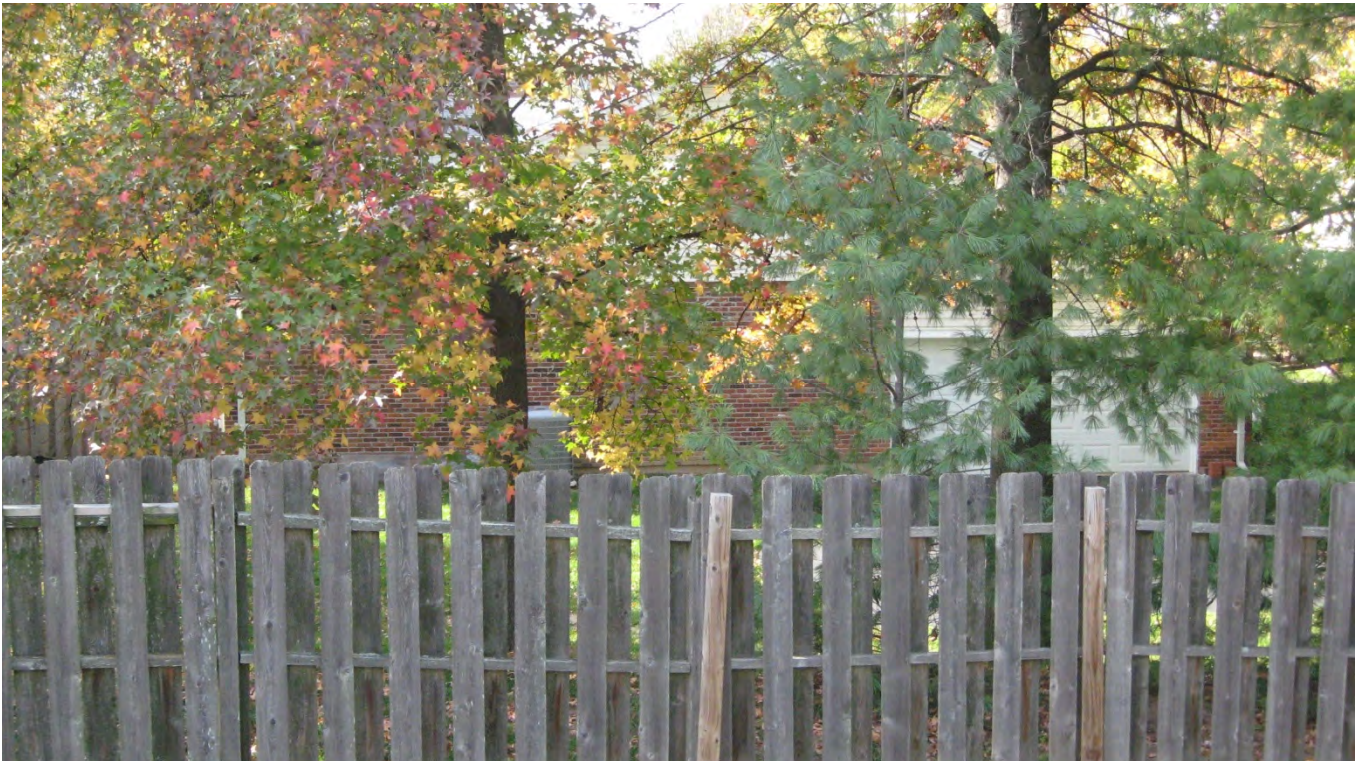
12



13 WOODFIELD SUBDIVISION – NORTH & WEST OF SUBJECT PROPERTY



14



15



16



17



18

