



III. B.

690 Chesterfield Pkwy W • Chesterfield MO 63017-0760
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Architectural Review Board Staff Report

Project Type: Site Development Section Plan

Meeting Date: October 23, 2014

From: John Boyer
Senior Planner

Location: Located southeast of the intersection of Premium Way and Outlet Blvd.

Applicant: Grey Design Group, Inc. and Stock & Associates Consulting Engineers, Inc. on behalf of Wolfe Properties, LLC.

Description: **Chesterfield Blue Valley, Lot 5D-2 (Burlington) - SDSP:** A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 6.26 acre tract of land zoned "PC" Planned Commercial District located southeast of the intersection of Premium Way and Outlet Blvd.

PROPOSAL SUMMARY

The request is for construction of a 54,980 square foot retail building with accessory parking within the Chesterfield Blue Valley development. The subject site is zoned "PC" Planned Commercial District and is governed under the terms and conditions of City of Chesterfield Ordinance 2805.

ZONING HISTORY OF SUBJECT SITE

In 2006, the first planned district was approved for the site and in the years since, the site-specific governing ordinance has been amended several times to include additional land into the planned district and to consolidate several ordinances. The most recent ordinance amendment occurred in 2014, when the City of Chesterfield approved Ordinance 2805 to modify development criteria of the development. Ordinance 2805 is the current ordinance of record.



Figure 1: Aerial Photo

STAFF ANALYSIS

General Requirements for Site Design:

A. Site Relationships

The proposed structure is to be situated within the Chesterfield Blue Valley development, south of the Simon Premium Outlet Mall. This one-story retail structure will be placed on a portion of lot 5 with accessory parking. The main elevation of the proposed retail building will face to the north towards Outlet Blvd.

B. Circulation System and Access

Proposed access to the site would utilize three (3) points; one from Outlet Blvd, Premium Way and Olive Street. The access from Outlet Blvd is restricted to a right-in / right-out only as noted on the Site Development Section Plan. Pedestrian access will be provided throughout the lot with connection to proposed/existing sidewalks along Blue Valley Lane (south), Premium Way (west) and Outlet Blvd (north).

C. Topography

Subject site is relatively flat.

D. Retaining Walls

No retaining walls are proposed associated with this development.

General Requirements for Building Design:

A. Scale, Design, Materials and Color

The proposed one-story retail structure is consistent in height, scale and appearance with the Premium Outlets to the north. Tilt-up concrete panels are utilized in association with brick, stone, EIFS, and standing seam metal on all four sides. The colors are proposed to match with the existing outlet buildings to the north. Additional design themes on the frontages have been carried onto the side elevations as desired for structures within the Chesterfield Valley. Main access to the structure is provided on the northern elevation. Mechanical equipment is planned to be roof mounted and will be screened by a parapet.



Figure 2: Existing Premium Outlets Exterior



Figure 3: Rendering of the Proposed structure

B. Landscape Design and Screening

All landscaping as identified on the submitted Landscape Plan is compliant with the Tree Preservation and Landscape Requirements of the City of Chesterfield. A combination of deciduous, coniferous and shrubs/bushes have been utilized throughout the exterior of the site.

A trash compactor is planned to be utilized at this location. The compactor is planned to be placed within the loading dock on the south elevation. The loading dock enclosure, in addition

to a planned gate for the front of the trash compactor, will provide screening for this mechanical element. The loading dock screening is a design element which is identified for development within the Chesterfield Valley.

C. Lighting

Lighting is planned in association with this development consisting of a mixture of parking area lighting made up of standard pole lights, and two (2) types of building-mounted accent lighting. The building accent lighting is provided to enhance the proposed building design as well as comply with requirements for construction within the Chesterfield Valley.

The planned pole lights will match existing pole lights on the neighboring Premium Outlets. Building-mounted lighting WP1 consists of the same fixture as the pole lighting but mounted to the exterior of the building. Only two (2) of these fixtures are planned both on the east elevation around the loading dock area.

The second wall-mounted light, WP2, is an architectural accent light planned along the frontage of the building. According to the Architect's Statement of Design, this fixture matches existing fixtures in use within the Premium Outlets to the north. A detail of this light is provided in Figure 4 to the right. According to the detail sheets provided on this light, the top and bottom of the fixture is shielded; however, light will extend outward. The fixture is a total of 15 inches in height and a total of 10 of the WP2 fixtures are planned. This planned light can be seen on the Rendering on Figure 3 on the previous page on the stone pillars along the front elevation.



Figure 4: WP2 Light

While all site lighting is included for the ARB's review, accent lighting is ultimately required to be approved by the Planning Commission as directed by the City Lighting standards. Staff is continuing to review proposed lighting in accordance with the City's lighting standards; however, all lights are compliant with foot-candle levels within the UDC including the Chesterfield Valley lighting requirements.

DEPARTMENTAL INPUT

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

Staff requests review and recommendation on this submittal for Chesterfield Blue Valley, Lot 5D-2 (Burlington) SDSP.

MOTION

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

- 1) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design, for Chesterfield Blue Valley, Lot 5D-2 (Burlington), as presented, with a recommendation for approval (or denial) to the Planning Commission."

- 2) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design, for Chesterfield Blue Valley, Lot 5D-2 (Burlington), to the Planning Commission with the following recommendations..."

Attachments

1. Architectural Review Packet Submittal



ARCHITECTURAL REVIEW BOARD
Project Statistics and Checklist

Date of First Comment Letter Received from the City of Chesterfield _____

Project Title: _____ Location: _____

Developer: _____ Architect: _____ Engineer: _____

PROJECT STATISTICS:

Size of site (in acres): _____ Total Square Footage: _____ Building Height: _____

Proposed Usage: _____

Exterior Building Materials: _____

Roof Material & Design: _____

Screening Material & Design: _____

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

ADDITIONAL PROJECT INFORMATION:

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

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

BURLINGTON

Architect's Statement of Design

The proposed Burlington building will complement the existing St. Louis Premium Outlets architectural language. The theme of the design is the Modern Prairie style as outlined in the Chesterfield Blue Valley Construction Manual. Several elements of the modern prairie style are carried over from the outlets including strong horizontal lines, broad overhangs, and a color palette of earth tones.

General Requirements for Site Design

Site Relationships:

The proposed building occupies one of the planned out lots that will surround the Chesterfield Blue Valley developments anchor tenant, the St. Louis Premium outlet. The color site plan shows how the new building will address the existing St. Louis Premium Outlet with it's front facade. The side and rear elevations of the proposed building are softened with landscaping. The corners are embellished with architectural elements that coordinate with the front facade.

Circulation System and Access:

Vehicular access to the site will be provided from three directions off Outlet Boulevard, Premium Way, and Premium Street. Pedestrian access will be provided all around the building. The pedestrian paths will connect to existing and planned walkways. The vehicular and pedestrian paths have minimal conflicts.

Topography:

The topography of the site is generally flat. Rain Gardens will be utilized on the South and East sides of the building. New landscaping will be provided all around the building and in the parking lot. Appropriate plantings will be installed in the rain garden areas.

Retaining Walls:

There will be no new retaining walls.

General Requirements for Building Design

Scale:

The overall scale of the building is similar to the adjacent St. Louis Premium Outlets. The stone treatment at the base of the proposed building, near the entry, grounds the building and creates a more human scale on the side that will experience most of the pedestrian traffic.

Design:

The building elevations illustrate how the proposed building will blend with the existing St. Louis Premium outlet. The same materials (tilt-up concrete walls, Brick, Stone, Standing Seam Metal), architectural features, and colors will be utilized. The building will maintain the overall character, principles, and theme of the 'Prairie Style of Architecture' established as a unifying theme for all development within Chesterfield Blue Valley.

Materials and Colors:

The proposed building will have tilt-up concrete walls painted to match the existing St. Louis Premium Outlets. Other components pulled from the existing mall include: Brick, Stone, EIFS, and Standing Seam Metal. The colors are generally earth tones accompanied by complimentary accent colors.

Landscape Design and Screening:

Along Outlet Boulevard, street tree plantings of Swamp White Oak and Littleleaf Linden will define the northern edge of the development. Along Premium Way, street tree plantings will be Zelkova and Upright English Oak. Street trees (Red Sunset Maple and Swamp White Oak) are specified for the future Blue Valley Avenue at the southern edge of the site.

Patrons will enter the site from either Premium Way or Outlet Blvd. and enter into drives and with large planting islands with two tree varieties, Upright English Oak (islands near the building and Zelkova (internal islands near perimeters of parking lot). Red Sunset Maple will be planted in the islands found in the center of parking fields. These three tree varieties will provide a variety of colors, forms and textures while providing a shade effect in the parking areas. Parking islands will be sodded and irrigated.

Evergreen plantings are organized anchor and frame views of the building and to provide year-round screening of loading and service court areas. On the eastern edge of the proposed service area, a hedge row of 6'high Oriental Arbovitae will assist in buffering the proposed loading area from view.

Wrapping around the southern and eastern sides of the building are storm water bio-retention areas. These areas will be planted with sedges, grasses and forbs to provide a water cleansing function per MSD design requirements. Eastern redbuds are planted on the south side of the building to complement the rear of the retail store.

Signage:

Signage is to be consistent with the Master Sign Plan approved by the City of Chesterfield for Chesterfield Blue Valley.

Lighting:

New site lighting will be added in the parking lot that matches the lighting installed in the adjacent Outlets parking lot. The civil drawings indicate location; also see the photometric drawing and light fixture cut sheets for more information. Building mounted lighting will be complimentary to the fixtures used at the Outlet.

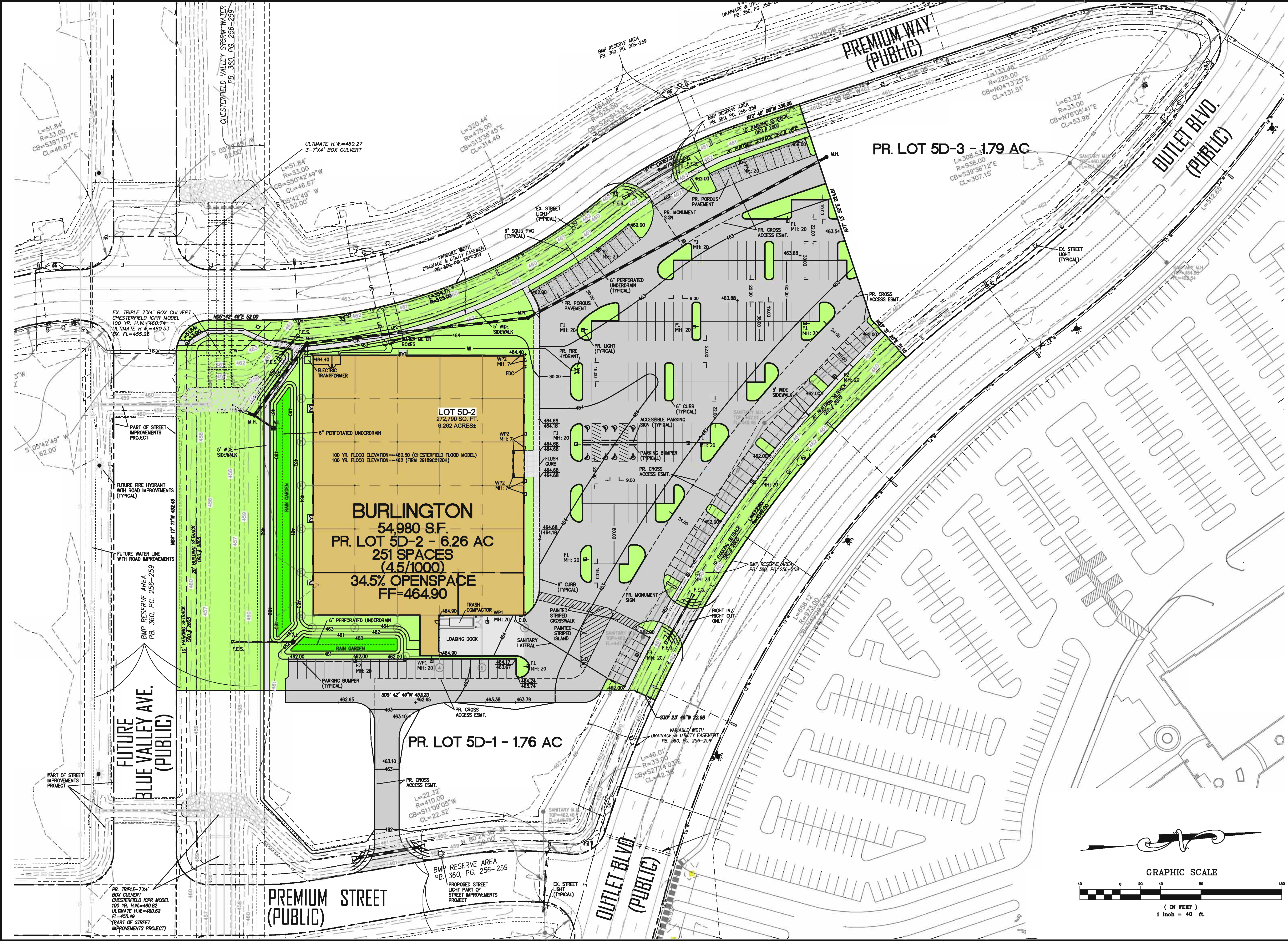
BURLINGTON

CHESTERFIELD ARB PACKET

10.08.2014

SHEET INDEX

C.1	COLOR SITE PLAN
C.2	SITE PHOTOMETRIC
L.1	LANDSCAPE PLAN
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P.2	COLORED ELEVATIONS
P.3	COLORED ELEVATIONS
P.4	PHOTO KEY PLAN
P.5	EXISTING CONDITON PHOTOS
P.6	EXISTING CONDITION PHOTOS



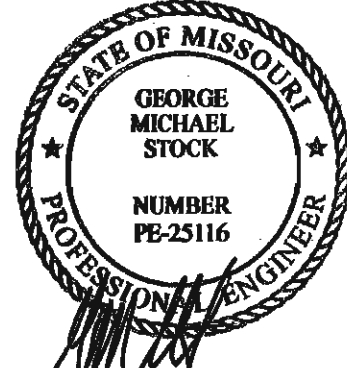
PREPARED BY:

SITE DEVELOPMENT SECTION PLANS FOR:

BURLINGTON

18490 OUTLET BLVD
CHESTERFIELD
MISSOURI

DATE: 10/06/14



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

REVISIONS:

1	CITY COMMENTS - 10/01/14
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DRAWN BY: E.J.F. CHECKED BY: G.M.S.

DATE: 09/02/14 JOB NO.: 214-5280

S.D. NO. - BASE MAP # 17W

S.L.C. MAP # - NAT. SUP. # -

NO. & # MO-00

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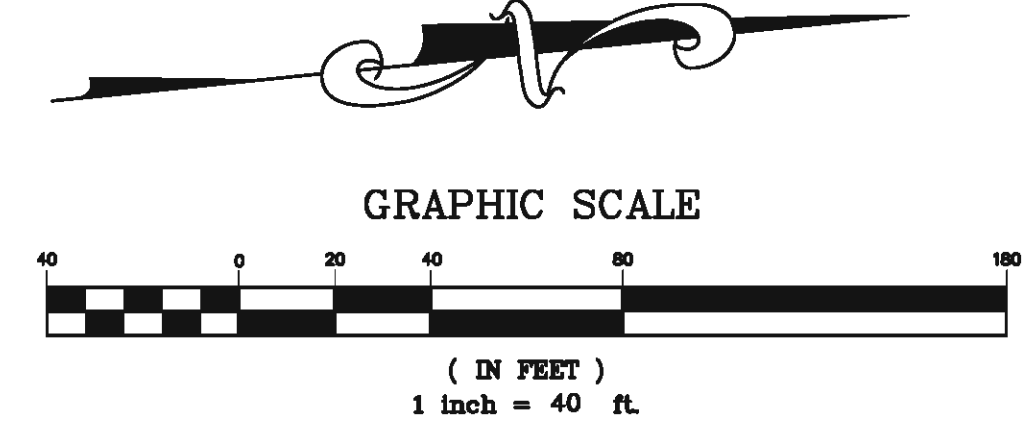
SITE PLAN

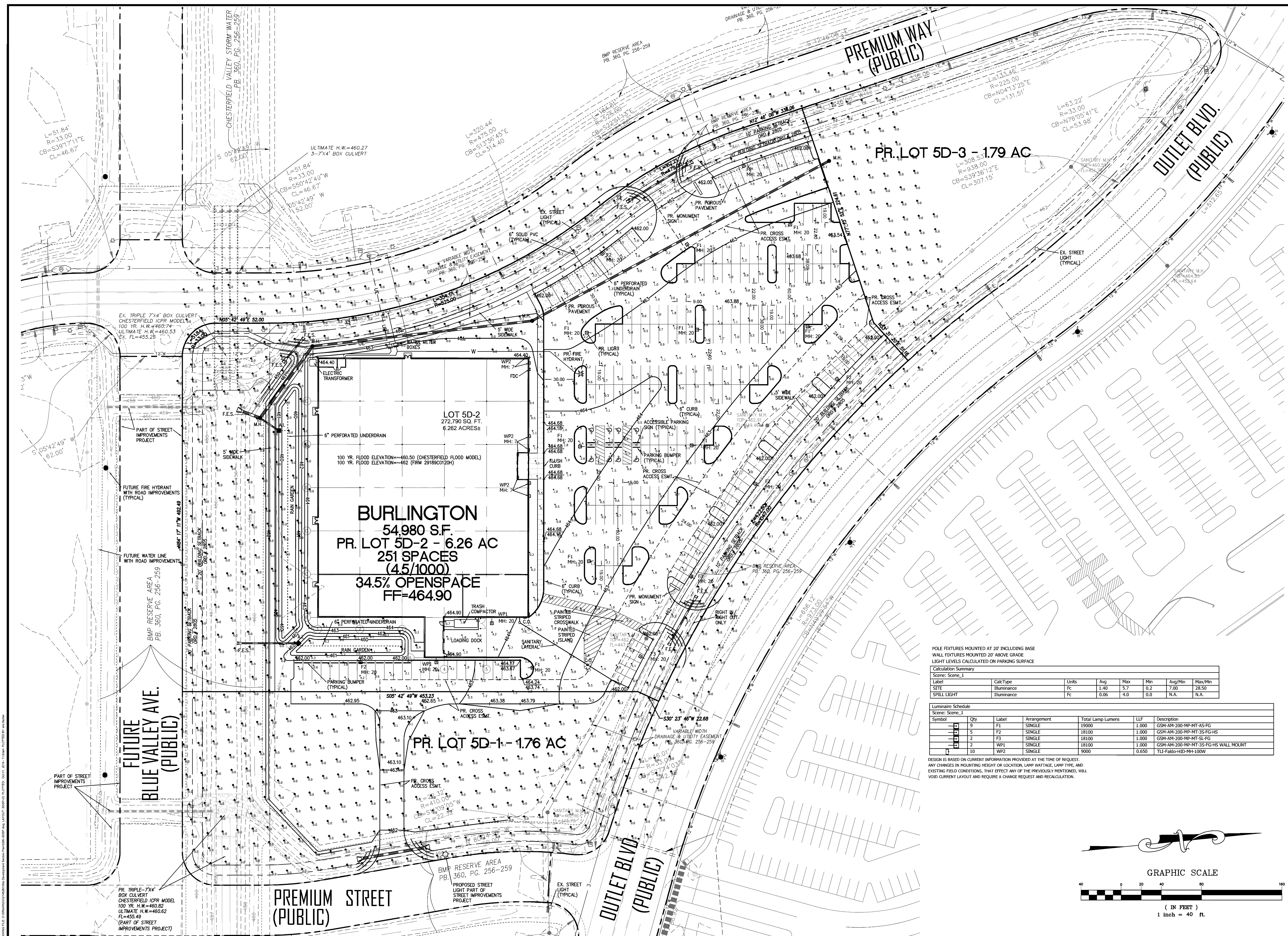
SHEET NO.:

SDSP-2

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

Stock & Associates
Consulting Engineers, Inc.





BURLINGTON
 54,980 S.F.
 PR. LOT 5D-2 - 6.26 AC
 251 SPACES
 (4.5/1000)
 34.5% OPENSOURCE
 FF=464.90

PR. LOT 5D-1 - 1.76 AC

PR. LOT 5D-3 - 1.79 AC

POLE FIXTURES MOUNTED AT 20' INCLUDING BASE
 WALL FIXTURES MOUNTED 20' ABOVE GRADE
 LIGHT LEVELS CALCULATED ON PARKING SURFACE

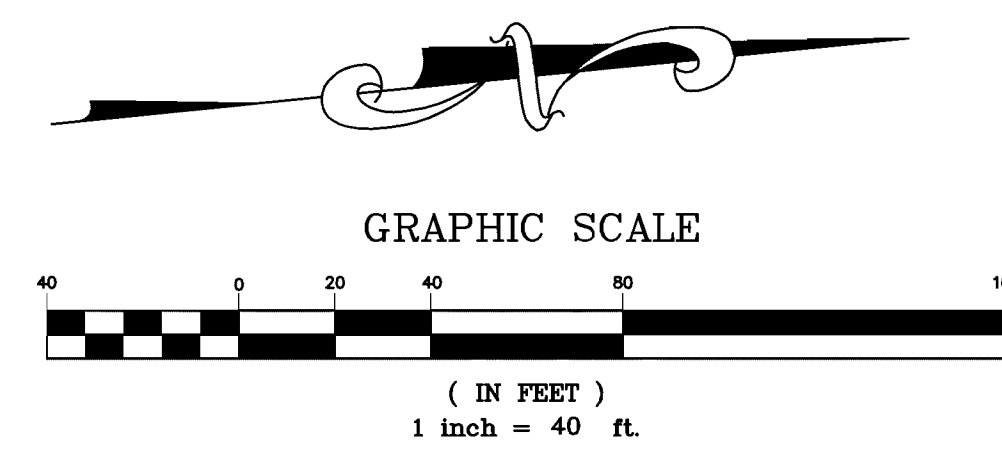
Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
SITE	Illuminance	Fc	1.40	5.7	0.2	7.00	28.50
SPILL LIGHT	Illuminance	Fc	0.06	4.0	0.0	N.A.	N.A.

Luminaire Schedule

Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description
[Symbol]	9	F1	SINGLE	19000	1.000	GSM-AM-200-MP-MT-A5-FG
[Symbol]	5	F2	SINGLE	18100	1.000	GSM-AM-200-MP-MT-3S-FG-HS
[Symbol]	2	F3	SINGLE	18100	1.000	GSM-AM-200-MP-MT-SL-FG
[Symbol]	2	WP1	SINGLE	18100	1.000	GSM-AM-200-MP-MT-3S-FG-HS WALL MOUNT
[Symbol]	10	WP2	SINGLE	9000	0.650	TLL-Falco-HID-MP-100W

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



PREPARED BY:

SITE DEVELOPMENT SECTION PLANS FOR:

BURLINGTON
 18490 OUTLET BLVD
 CHESTERFIELD
 MISSOURI

DATE: 10/01/14

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

REVISIONS:

NO.	DESCRIPTION
1	CITY COMMENTS - 10/01/14

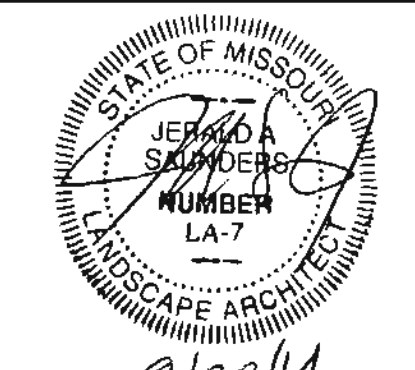
DRAWN BY: E.J.F. CHECKED BY: G.M.S.
 DATE: 09/02/14 SHE NO.: 214-5280
 M.S.D. # - BASE MAP # 17W
 S.L.C. MAT # - MAT SUP. # -
 M.D.N.R. # MO-00

SHEET TITLE:
PHOTOMETRIC PLAN

SHEET NO.:

C.2

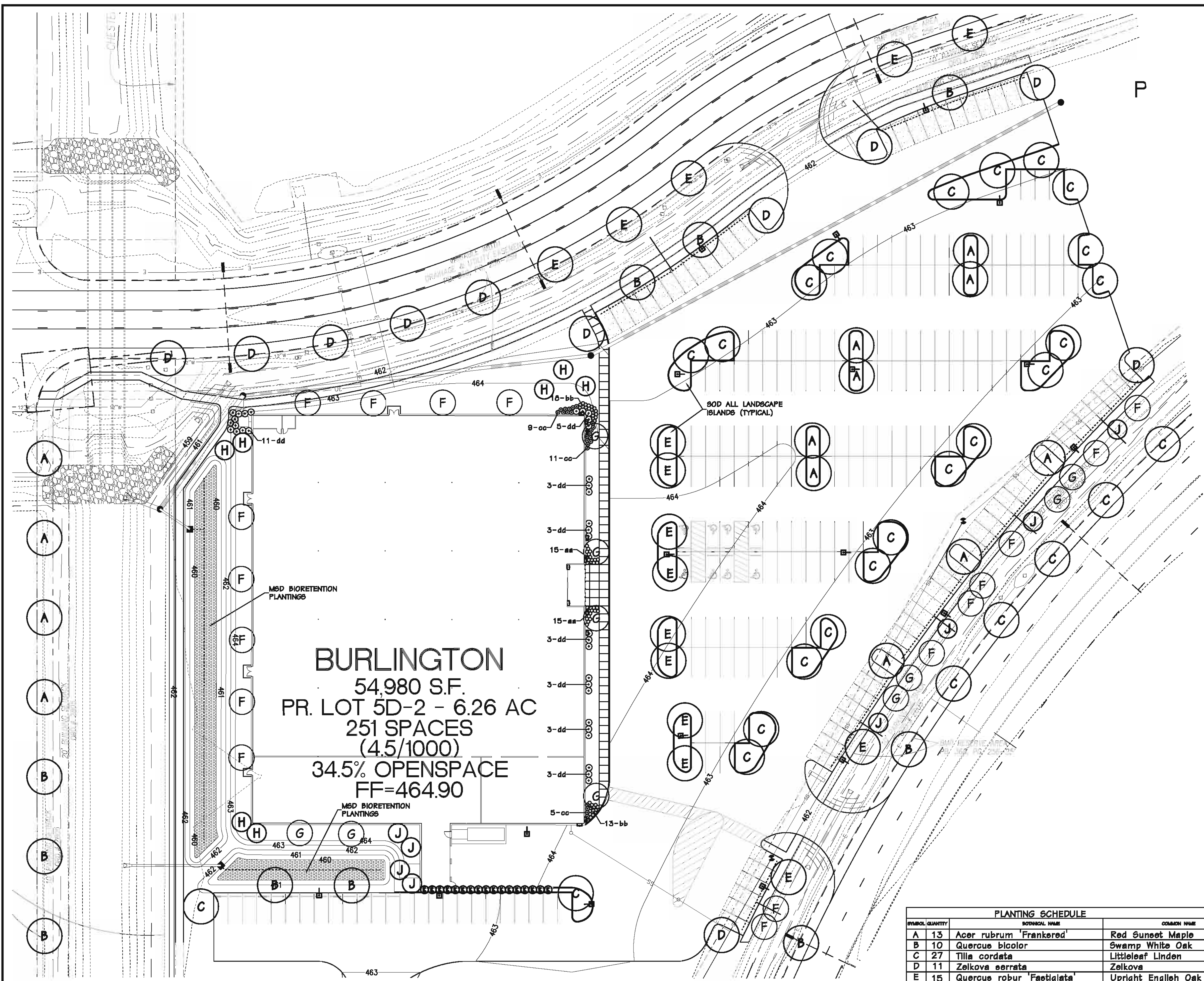
STOCK & ASSOCIATES
 Consulting Engineers, Inc.
 257 Chesterfield Business Parkway
 St. Louis, MO 63016 PH: (636) 530-9100 FAX: (636) 530-9100
 E-mail: general@stockand.com Web: www.stockand.com



Jerald Saunders, Landscape Architect
MO License # LA-007

Consultants:

Burlington
18490 Outlet Blvd.
Chesterfield, Missouri



BURLINGTON
54,980 S.F.
PR. LOT 5D-2 - 6.26 AC
251 SPACES
(4.5/1000)
34.5% OPENSAPCE
FF=464.90

Note:
An in-ground irrigation system will be provided.
Open Space Percentage: 34.5%

PLANTING SCHEDULE							
SYMBOL	QUANTITY	COMMON NAME	COMMON NAME	SIZE	TYPE	GROWTH RATE/SIZE CLASS	MATURE HT./FEET
A	13	Acer rubrum 'Frankered'	Red Sunset Maple	2.5" cal	Deciduous	Fast/Large	45+
B	10	Quercus bicolor	Swamp White Oak	2.5" cal	Deciduous	Med/Large	45+
C	27	Tilia cordata	Littleleaf Linden	2.5" cal	Deciduous	Slow-Med/Large	45+
D	11	Zelkova serrata	Zelkova	2.5" cal	Deciduous	Fast/Large	45+
E	15	Quercus robur 'Fastiglata'	Upright English Oak	2.5" cal	Deciduous	Fast/Medium	45+
F	17	Cercis canadensis	Eastern Redbud	2.5" cal	Ornamental	Fast/Medium	25-30
G	10	Prunus serrulata 'Kwanzan'	Kwanzan Flowering Cherry	2.5" cal	Ornamental	Med/Medium	25-35
H	7	Pinus strobus	Eastern White Pine	6'	Evergreen	Fast/Large	45+
J	8	Picea glauca	White Spruce	6'	Evergreen	Med/Medium	30-40
K	17	Platycladus orientalis 'Collene'	Oriental Arborvitae	6'	Evergreen	Slow/Medium	20-30
aa	30	Spiraea x bumalda 'Goldflame'	Goldflame Spiraea	24"	Shrub		
bb	31	Juniperus 'Blue Chip'	Blue Chip Juniper	24"	Shrub		
cc	25	Ilex 'China Boy/Girl'	China Boy/China Girl Holly	24"	Shrub		
dd	34	Viburnum x burkwoodii	Burkwood Viburnum	24"	Shrub		
		M&D Bioretention Plantings					

LANDSCAPE PLAN
SCALE 1" = 30'

Revisions:

Date	Description	No.
09/29/14	City Comments	1

Drawn: BR
Checked: R6

loomisAssociates
Landscape Architects/planners
707 Spirit of Park Drive, Suite 105
Chesterfield, MO 63005
P: 636.861.8628 F: 636.861.1027
E: mail@loomis-associates.com
loomis-associates.com
Missouri State Certificate of Authority #: LAC #0000191

Sheet Title: **Landscape Plan**

Sheet No: **L1**

Date: **09/02/14**
Job #: **667.013**



EXTERIOR RENDERING



BURLINGTON

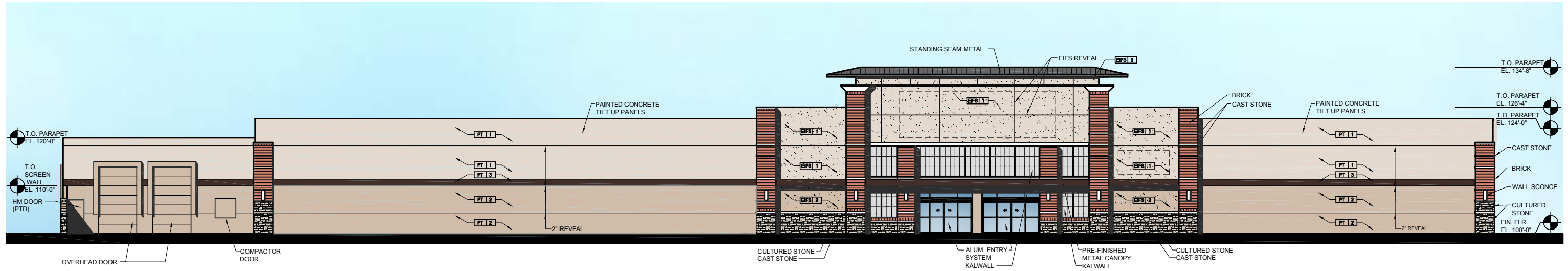
Chesterfield, Missouri



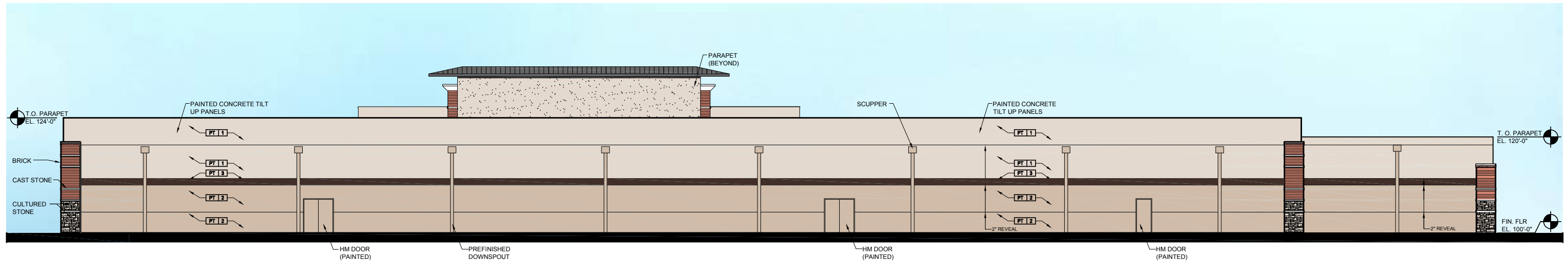
gray

27114266
10.08.2014

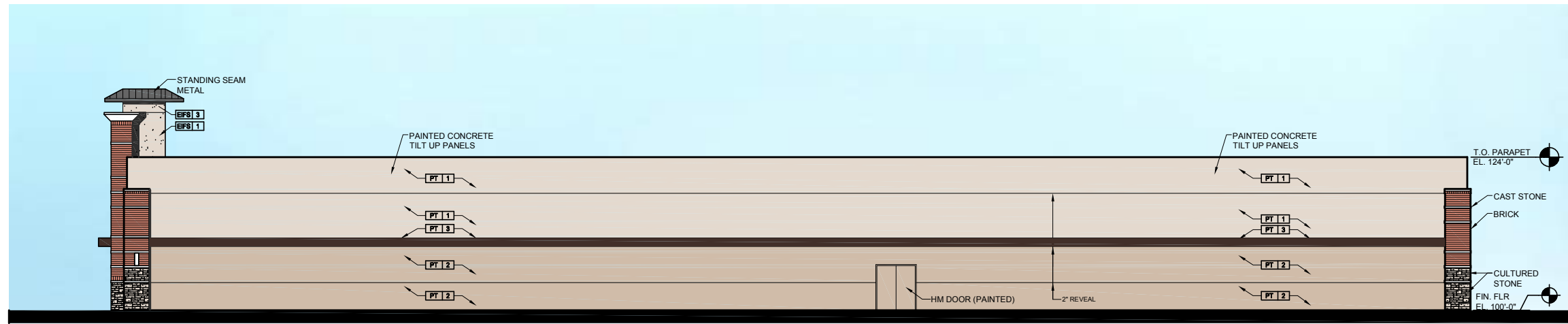
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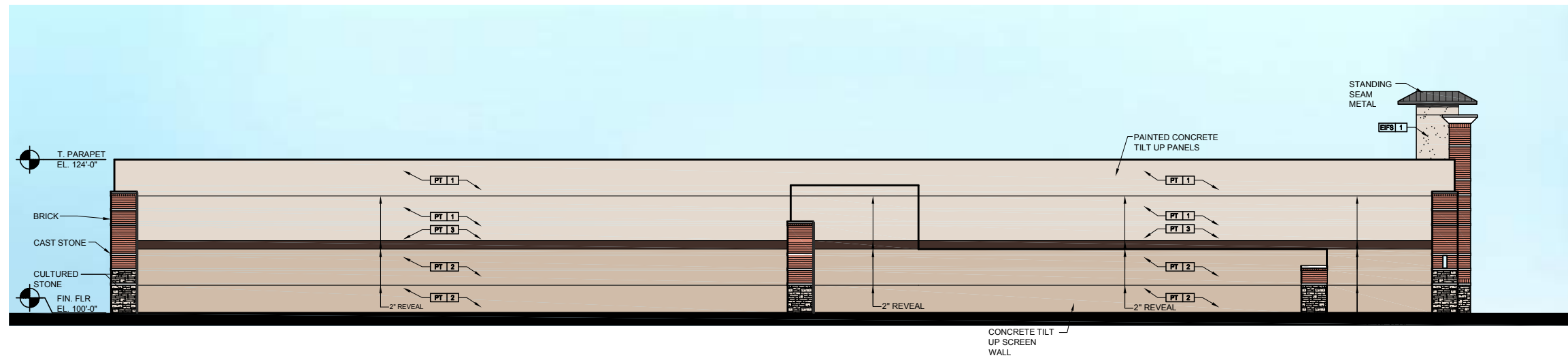
NORTH ELEVATION



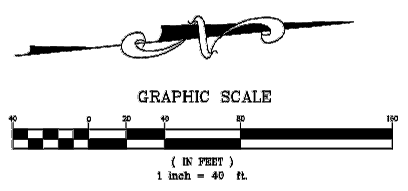
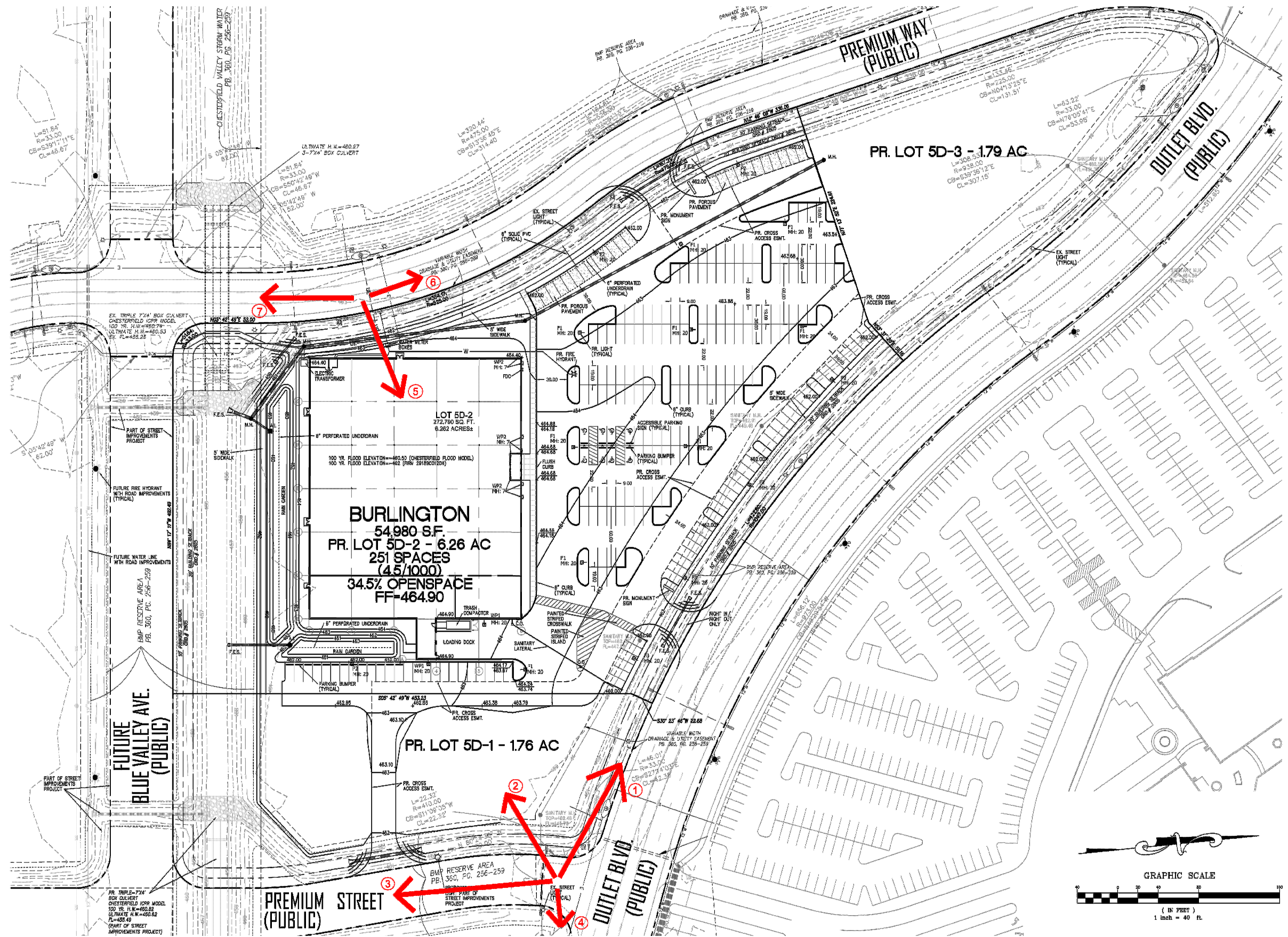
SOUTH ELEVATION



WEST ELEVATION



EAST ELEVATION





SITE PHOTO #1



SITE PHOTO #2



SITE PHOTO #3



SITE PHOTO #4



SITE PHOTO #5



SITE PHOTO #6



SITE PHOTO #7

EXISTING CONDITION PHOTOS



BURLINGTON

Chesterfield, Missouri



DESCRIPTION

Galleria's beauty and versatility make it an excellent choice for roadway and general area lighting applications. An aesthetic reveal in the formed aluminum housing gives the Galleria a distinctive look while a variety of mounting options and lamp wattages provide maximum flexibility.

Galleria's superior light distributions makes it the optimum choice for almost any small, medium or large area lighting application.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction
HOUSING: Formed aluminum housing with stamped reveal has interior-welded seams for structural integrity and is finished in premium TGIC polyester powder coat. U.L. listed and CSA certified for wet locations. **DOOR:** Formed aluminum door has heavy-duty hinges, captive retaining screws and is finished in premium TGIC polyester powder coat. (Spider mount unit has steel door.)

Electrical
BALLASTTRAY: Ballast tray is hard-mounted to housing interior for cooler operation.

Optical
REFLECTOR: Choice of 14 high efficiency optical systems utilizing horizontal and vertical lamp orientations. Optional high efficiency segmented optical systems constructed of premium 95% reflective anodized aluminum sheet. Optical segments are rigidly mounted inside a thick gauge aluminum housing for superior protection. All segment faces are clean of rivet heads, tabs or other means of attachment which may cause streaking in the light distribution. Standard with mogul-base socket. All optical modules feature quick disconnect wiring

plugs and are field rotatable in 90° increments. **LENS:** Convex tempered glass lens or flat glass.

Mounting
 Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during assembly. Specify arm-included mounting for contractor-friendly single carton packaging of housing and arm.



GSS/GSM/GSL
GALLERIA
SQUARE

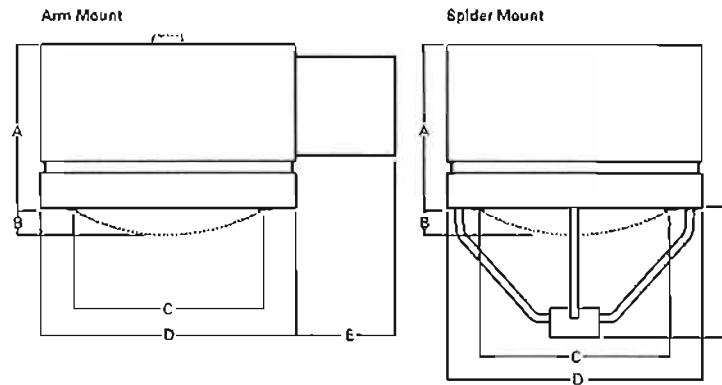
70 - 1000W
 Pulse Start Metal Halide
 High Pressure Sodium
 Metal Halide

ARCHITECTURAL
 AREA LUMINAIRE



NOTE: In all flat glass configurations only.

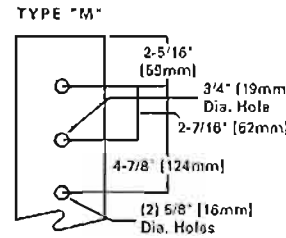
DIMENSIONS



Fixture	A	B	C	D	E	F
GSS	8-1/4" 235mm	1-1/2" 38mm	12-7/8" 327mm	15-5/8" 397mm	6" or 9" 152mm or 229mm	3-1/4" 337mm
GSM	11" 279mm	3-1/2" 89mm	19-1/4" 490mm	21-3/4" 552mm	6" or 14" 152mm or 356mm	15" or 16" 381mm or 406mm
GSL	14-1/2" 368mm	4-1/4" 109mm	25-7/8" 657mm	27" 686mm	6" or 14" 152mm or 356mm	18-3/4" or 19-3/4" 476mm or 502mm

NOTE: Top cap used on GSM with 1000W flat glass vertically lamped optics only.

ARM DRILLING



WATTAGE TABLE

Fixture	Lamp Type	Wattage
GSS (Galleria Small)	Pulse Start Metal Halide (MP)	70, 100, 150W
	High Pressure Sodium (HPS)	70, 100, 150W
	Metal Halide (MH)	175W
GSM (Galleria Medium)	Pulse Start Metal Halide (MP)	70, 100, 150, 175, 200, 250, 320, 350, 400, 450, 760, 875, 1000W
	High Pressure Sodium (HPS)	70, 100, 150, 250, 400, 750, 1000W
	Metal Halide (MH)	175, 250, 400, 1000W
GSL (Galleria Large)	Pulse Start Metal Halide (MP)	250, 320, 350, 400, 450, 750, 1000W
	High Pressure Sodium (HPS)	250, 400, 750, 1000W
	Metal Halide (MH)	250, 400, 1000W

ENERGY DATA

CWA Ballast Input Watts
 150W MP HPF (185 Watts)
 175W MP HPF (198 Watts) G
 250W MP HPF (283 Watts) G
 250W HPS HPF (295 Watts)
 400W MP HPF (452 Watts) G
 400W HPS HPF (457 Watts)
 750W MP HPF (820 Watts)
 1000W MH HPF (1080 Watts)
 1000W HPS HPF (1100 Watts)

EPA

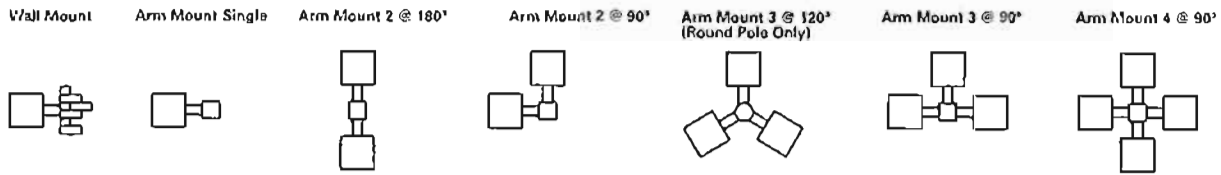
Effective Projected Area: (Sq. Ft.)
 (Without Arm)
 GSS: 1.20 GSM: 2.40 GSL: 3.90
 (Spider Mount)
 GSS: 1.63 GSM: 2.86 GSL: 4.45

SHIPPING DATA

Approximate Net Weight:
 36 lbs. (16 kgs.)
 79 lbs. (36 kgs.)
 88 lbs. (40 kgs.)

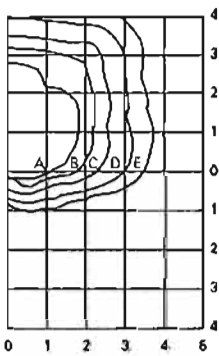


MOUNTING CONFIGURATIONS

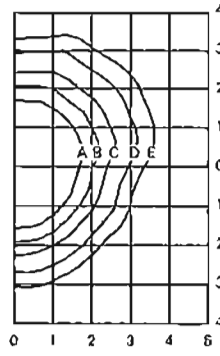


E.P.A. TABLE	Single	2 @ 180°	2 @ 90°	3 @ 120°	3 @ 90°	4 @ 90°
	(w/arm where applicable)					
GSS	1.7	3.4	3.4	4.6	4.6	5.2
GSM	2.9	5.8	6.8	9.2	9.2	10.4
GSL	4.4	8.8	9.8	13.7	13.7	16.6

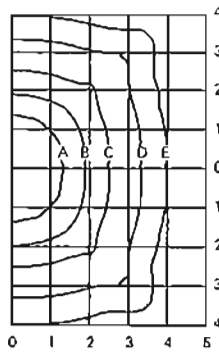
PHOTOMETRICS



GSM-XX-1000-MH-SL-FG
 1000-Watt MH
 110,000-Lumen Clear Lamp
 Spill Light Eliminator
 Flat Glass



GSM-XX-1000-MH-3V-FG
 1000-Watt MH
 110,000-Lumen Clear Lamp
 Type III Vertical
 Flat Glass



GSM-XX-1000-MH-AS-SG
 1000-Watt MH
 110,000-Lumen Clear Lamp
 Area Square
 Flat Glass

Footcandle Table

Select mounting height and read across for footcandle values of each isofootcandle line. Distances in units of mounting height.

Mounting Height	Footcandle Values for Isofootcandle Lines				
	A	B	C	D	E
1000W [SL] / 400W [AR]					
25'	2.88	1.44	0.72	0.29	0.14
30'	2.00	1.00	0.50	0.20	0.10
35'	1.46	0.73	0.37	0.15	0.07
1000W [3V/AS]					
30'	3.50	2.00	1.00	0.50	0.20
35'	2.60	0.73	0.37	0.18	0.07
40'	2.00	1.00	0.50	0.20	0.10

ORDERING INFORMATION

Sample Number: GSM-AM-400-MP-MT-3V-SG-8K-L

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<p>Product Family GSS=Galleria Square Small GSM=Galleria Square Medium GSL=Galleria Square Large</p> <p>Mounting Method AM: Arm Mount¹ AIR: Arm Included for² Round Pole AIS: Arm Included for² Square Pole SM1: Spider Mount³ (2 3/8" OD Tenon) SM2: Spider Mount (3" OD Tenon) SM3: Spider Mount⁴ (3 1/2" OD Tenon)</p>	<p>Lamp Wattage MP 70=70W 100=100W 180=150W 175=175W 200=200W 250=250W 320=320W 350=350W 400=400W⁶ 450=450W 750=750W 875=875W 1000=1000W⁷ HPS 70=70W 100=100W 180=150W 250=250W 400=400W 750=750W 1000=1000W⁷ MH⁸ 175=175W 250=250W 280=250W 400=400W 1000=1000W⁷</p>	<p>Lamp Type MP=Pulse Start Metal Halide HPS=High Pressure Sodium MH=Metal Halide⁸</p> <p>Voltage⁹ 120=120V 208=208V 240=240V 277=277V 347=347V 480=480V MT: Multi-Tap¹⁰ TT: Triple-Tap¹⁰ 5T: 5-Tap¹¹</p>	<p>Distribution Horizontal Lamp 1F=Type I Formed¹² 2F=Type II Formed 2S=Type II Segmented¹³ 3F=Type III Formed 3S=Type III Segmented¹³ 4S=Type IV Segmented¹³ 5S=Type V Segmented¹³ FT: Forward Throw SL: Spill Light Eliminator¹⁴ CA: Cutoff Asymmetric with EHS¹⁵ Vertical Lamp AR: Area Round AS: Area Square¹⁶ 3V: Type III Vertical¹⁵ RW: Rectangular Wide^{15, 16}</p> <p>Lens Type FG: Flat Glass¹⁷ SG=Sag Glass</p>	<p>Color¹⁸ AP=Grey BZ=Bronze BK=Black WH=White DP=Dark Platinum GM: Graphite Metallic</p> <p>Options¹⁹ F: Single Fuse (120, 277 or 347V) FF: Double Fuse (208, 240 or 480V) L: Lamp Included EM: Quartz Restrike w/²⁰ Delay Q: Quartz Restrike²⁰ R: NEMA Twistlock Photocontrol Receptacle EHS: External Adjustable House Side Shield HS: House Side Shield²¹ VS=Vandal Shield²²</p>	<p>Accessories²³ GSM-EXTNS=External House Side Shield - 2.24 EPA GSL-EXTNS=External House Side Shield - 2.46 EPA MA1004XX=14" Arm for Square Pole, 1.0 EPA²⁴ MA1005XX=6" Arm for Square Pole, 0.5 EPA²⁴ MA1006XX: Direct Mount Kit for Square Poles MA1007XX: 14" Arm for Round Pole, 1.0 EPA²⁴ MA1008XX: 6" Arm for Round Pole, 0.5 EPA²⁴ MA1009XX: Direct Mount Kit for Round Poles MA1021XX: 6" Arm for Square Pole, 0.5 EPA²⁴ MA1022XX: 6" Arm for Round Pole, 0.5 EPA²⁴ MA1023XX: 6" Arm for Square Pole, 0.5 EPA²⁴ MA1024XX: 9" Arm for Round Pole, 0.5 EPA²⁴ MA1025XX: Wall Mount Bracket with 10" Arm MA1046XX: Wall Mount Brackets MA1208XX: 1 1/2" Arm and Round Pole Adapter, 0.8 EPA OA1088XX: Mast Arm Adapter MA1010XX: Single Tenon Adapter for 3 1/2" O.D. Tenon MA1011XX: 2@180° Tenon Adapter for 3 1/2" O.D. Tenon MA1012XX: 3@120° Tenon Adapter for 3 1/2" O.D. Tenon MA1013XX: 4@90° Tenon Adapter for 3 1/2" O.D. Tenon MA1014XX: 2@90° Tenon Adapter for 3 1/2" O.D. Tenon MA1015XX: 2@120° Tenon Adapter for 3 1/2" O.D. Tenon MA1016XX: 3@90° Tenon Adapter for 3 1/2" O.D. Tenon MA1017XX: Single Tenon Adapter for 2 3/8" O.D. Tenon MA1018XX: 2@180° Tenon Adapter for 2 3/8" O.D. Tenon MA1019XX: 3@120° Tenon Adapter for 2 3/8" O.D. Tenon MA1045XX: 4@90° Tenon Adapter for 2 3/8" O.D. Tenon MA1048XX: 2@90° Tenon Adapter for 2 3/8" O.D. Tenon MA1049XX: 3@90° Tenon Adapter for 2 3/8" O.D. Tenon MA1060=House Side Shield for GSS (Field Installed)²⁴ MA1061=House Side Shield for GSL (Field Installed)²⁴ OA/RA1016=NEMA Twistlock Photocontrol - Multi-Tap OA/RA1027=NEMA Twistlock Photocontrol - 480V OA/RA1201=NEMA Twistlock Photocontrol - 347V</p>
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- Notes:
- 1 Arm not included. See Accessories.
 - 2 Arm length varies based on housing size: 9" for GSS, 11-1/2" for GSM and 14" for GSL.
 - 3 Available on GSS housing only.
 - 4 Available on GSL housing only.
 - 5 Standard with medium base sockets in GSS housing; Mogul base sockets in GSM and GSL housings. Wattage availability varies by housing size - see Wattage Table.
 - 6 Requires reduced envelope ED-28 lamp when used with GSM housing and flat glass vertically lamped option.
 - 7 Requires reduced envelope BT-37 lamp when used with GSM housing.
 - 8 175, 250 and 400W MH available for non-US markets only.
 - 9 Products also available in non-US voltages and 50Hz for international markets. Consult factory for availability and ordering information.
 - 10 Multi-Tap ballast is 120/208/240/277V wired 277V. Triple-Tap ballast is 277/347/480V wired 347V.
 - 11 5-Tap ballast is 120/208/240/277/480V wired 480V. Only available in 400-1000W.
 - 12 Medium housing fixture only.
 - 13 Maximum wattage on segmented optical distributions is 400W. 400W Metal Halide lamp must use reduced envelope ED-28 lamp. Not available in GSL housing.
 - 14 Must use reduced envelope lamp, not available in GSL housing.
 - 15 Available on GSM and GSL housings only.
 - 16 RW optic not available with flat glass.
 - 17 1000W GSL with flat glass requires BT-37 lamp and is not available in AS, RW, SL or 3V distributions.
 - 18 Other finish colors available, including a full line of RAL color matches. Consult your Cooper Lighting Representative.
 - 19 Add as suffix in the order shown.
 - 20 Quartz options not available with SL optics.
 - 21 House side shield not available with GS, RW, AS, AR, SL and CA optics.
 - 22 Arm mount only, 400W Maximum.
 - 23 Order separately, replace XX with color suffix.
 - 24 Compatible with sag lens vertical optic only.

FALDO HID

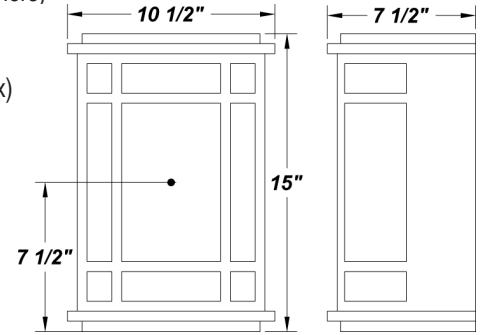


COMPACT FLUORESCENT & HID

PROJECT :
TYPE :
ORDERING # :
COMMENTS :

FEATURES

- Steel Housing w/ Textured Black Polyester Powder Coat Finish
- Steel Mounting Pan w/ Hi-Reflectance White Powder Coat Finish
- Solid Top & Bottom End Plates
- Luminous White Polycarbonate Panels
- Mounts Directly to 4" Junction Box (By Others)
- Mounting Hardware Included
- Lamps Included
- Integral EM Battery Available (1x32W Max)
- ETL Listed Wet Location
- Metal Halide Wattages Are CSA Listed For Wall Mounting



ORDERING INFORMATION

Example : (FLH132X - 120E - WPL - 41K)

Textured Black is Standard Finish

PRODUCT	SOURCE/WATTAGE	VOLTAGE	DIFFUSER	FINISH	OPTIONS
Faldo HID	FLH50MH - (1) 50W MH FLH70MH - (1) 70W MH FLH50 - (1) 50W HPS FLH70 - (1) 70W HPS FLH132X - (1) 32W TBX FLH142X - (1) 42W TBX FLH157X - (1) 57W TBX FLH232X - (2) 32W TBX FLH242X - (2) 42W TBX	<u>METAL HALIDE (MH)</u> 120V - 120V HPF 120H - MT HPF (Wired 120V) MTH - MT HPF (Wired 277V) 347V - 347V HPF <u>HPS</u> 120V - 120V HPF 120H - MT HPF (Wired 120V) MTH - MT HPF (Wired 277V) (MT - Multi-Tap) <u>FLUORESCENT (F)</u> 120E - 120V Electronic 277E - 277V Electronic	WPL - White Polycarbonate (Standard) The Following Are To Be Used With Fluorescent Wattages ONLY WAL - White Acrylic	SM - Matte Silver TB - Textured Black AC - Antique Copper AS - Antique Silver BT - Bronze Mist CP - Copper SN - Sand SW - Swedish Steel BZ - Textured Bronze TW - Textured White RAL Colors or Custom Match - Consult Factory	41K - 4100K Color Temp. (Standard) 35K - 3500K Color Temp. 27K - 2700K Color Temp. F - Fused PCL - Photocell DIM - Dimming Ballast (Electronic Only) TP - Tamper Resistant Screws EBW / EBC - Integral Emergency Battery** (1x32W Maximum) EBR - Remote Mount Battery (Field Installed) ** W2L - Wire 2 Lamps to Integral Emergency Battery (2x18W Max) MSP - Program Start Ballast (Recommended for Motion Sensor) ***

REPLACEMENT PARTS

PART NO.

White Polycarbonate Lens Panel Set	9800860
White Acrylic Lens Panel Set	9800960

We reserve the right to revise the design or components of any product due to parts availability or change in UL standards, without assuming any obligation or liability to modify any products previously manufactured, and without notice.

ARRA 2009



NOTES

*Fluorescent Only

**Emergency Battery Options

Initial light output in Emergency mode will last for a minimum of 90 minutes. 1 lamp wired unless ordered otherwise. The following are suitable for indoor and damp locations. Please refer to Bodine's specification sheet

EBW: Bodine's B94G (Electronic) - Temperature Rating (Ambient) 32° F - 131° F

EBC: Bodine's B4CF1 (Electronic) - Temperature Rating (Ambient) -4° F - 131° F

EBR: Bodine's B94CG (Electronic) - Temperature Rating (Ambient) 32° F - 122° F

*** For Electronic Wattage Fixtures Being Used in Conjunction With an Occupancy Sensor (Either Provided by us, or Your Own System), a Program Start Ballast is Recommended in Order to Maximize Lamp Life.

IES ROAD REPORT
PHOTOMETRIC FILENAME : TLI-FALDO-HID-MH-100W.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-1995
 [TEST]BALLABS TEST NO. 12851.0
 [MANUFAC] TIRON LIGHTING INC - FAIRFIELD, OH
 [LUMINAIRE] 1/100W CLEAR ED17 MH LAMP 15.5x10.5"FAZIO HID WALL SCNCE
 [LUMINAIRE] WHITE REFLECTOR & BLACK HOUSING w/.125"WHITE ACRYLIC FACE
 [LUMINAIRE] & SIDE DIFFUSERS REFL=87%
 [LUMCAT] FZH100MH-MTH
 [LAMPCAT] M90 MH100/U

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Long
Cutoff Classification (deprecated)	Semi-Cutoff
Lumens Per Lamp	9000 (1 lamp)
Total Lamp Lumens	9000
Luminaire Lumens	1254
Total Luminaire Efficiency	14 %
Downward Total Efficiency	7 %
Upward Waste Light Ratio	0.49
Maximum Candela	259
Maximum Candela Angle	22.5H 85V
Maximum Candela (<90 Degrees Vertical)	259
Maximum Candela Angle (<90 Degrees Vertical)	22.5H 85V
Maximum Candela At 90 Degrees Vertical	258 (2.9% Lamp Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	259 (2.9% Lamp Lumens)
Total Luminaire Watts	100
Ballast Factor	1.00

IES ROAD REPORT
PHOTOMETRIC FILENAME : TLI-FALDO-HID-MH-100W.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

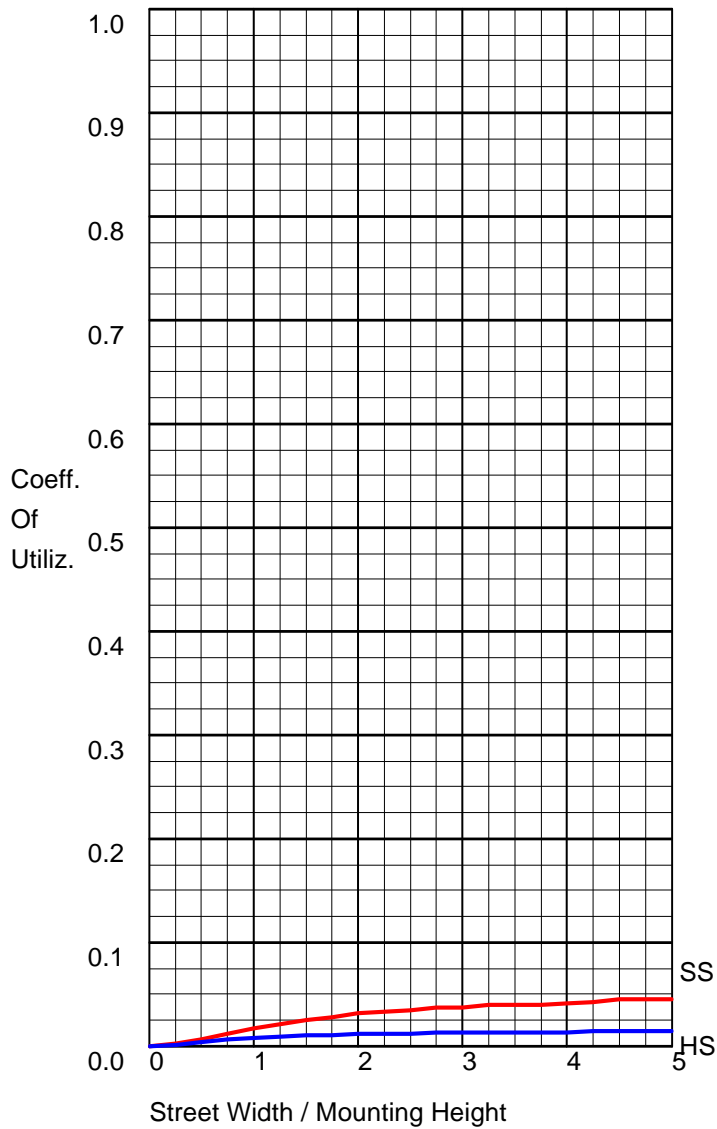
	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	16.9	0.2	1.3
FM - Front-Medium (30-60)	158.4	1.8	12.6
FH - Front-High (60-80)	202.7	2.3	16.2
FVH - Front-Very High (80-90)	115.7	1.3	9.2
BL - Back-Low (0-30)	4.6	0.1	0.4
BM - Back-Medium (30-60)	46.6	0.5	3.7
BH - Back-High (60-80)	61.8	0.7	4.9
BVH - Back-Very High (80-90)	35.4	0.4	2.8
UL - Uplight-Low (90-100)	150.0	1.7	12.0
UH - Uplight-High (100-180)	461.4	5.1	36.8
Total	1253.5	14.1	100.0
BUG Rating	B0-U3-G1		

IES ROAD REPORT
PHOTOMETRIC FILENAME : TLI-FALDO-HID-MH-100W.IES

CANDELA TABULATION

Vert. Angles	Horizontal Angles								
	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
10	14	11	6	3	4	3	2	0	0
15	31	26	22	13	11	10	6	0	0
20	57	48	40	26	18	17	12	1	0
25	77	74	61	41	29	26	17	5	0
30	100	98	84	58	41	36	24	8	0
35	124	121	108	74	52	46	30	10	0
40	149	146	131	91	62	56	38	14	0
45	165	166	151	107	70	64	43	16	0
50	185	187	171	123	79	73	51	19	0
55	198	203	187	136	85	78	55	22	0
60	212	219	200	147	92	84	60	25	0
65	225	230	212	156	98	91	64	27	0
70	233	243	222	163	103	94	68	29	0
75	241	251	229	171	106	98	71	30	0
80	245	256	234	173	109	99	73	32	1
85	247	259	237	177	111	99	72	32	0
90	247	258	237	177	110	99	74	33	3
95	245	256	235	176	109	100	73	32	1
100	241	251	230	170	107	97	71	31	2
105	233	244	224	167	103	95	69	29	2
110	225	233	214	160	99	90	66	28	1
115	212	220	202	151	92	85	61	26	0
120	199	206	189	140	87	79	57	23	0
125	185	189	173	128	80	72	53	20	0
130	166	169	155	113	69	62	44	17	0
135	149	150	140	97	62	56	37	15	0
140	132	131	119	84	53	47	33	12	0
145	109	108	97	68	43	38	25	9	0
150	89	87	79	54	35	29	21	7	0
155	68	64	59	40	27	23	15	6	0
160	47	45	39	25	18	15	10	3	0
165	26	23	21	12	10	7	5	0	0
170	13	12	8	4	5	3	2	0	0
175	1	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0

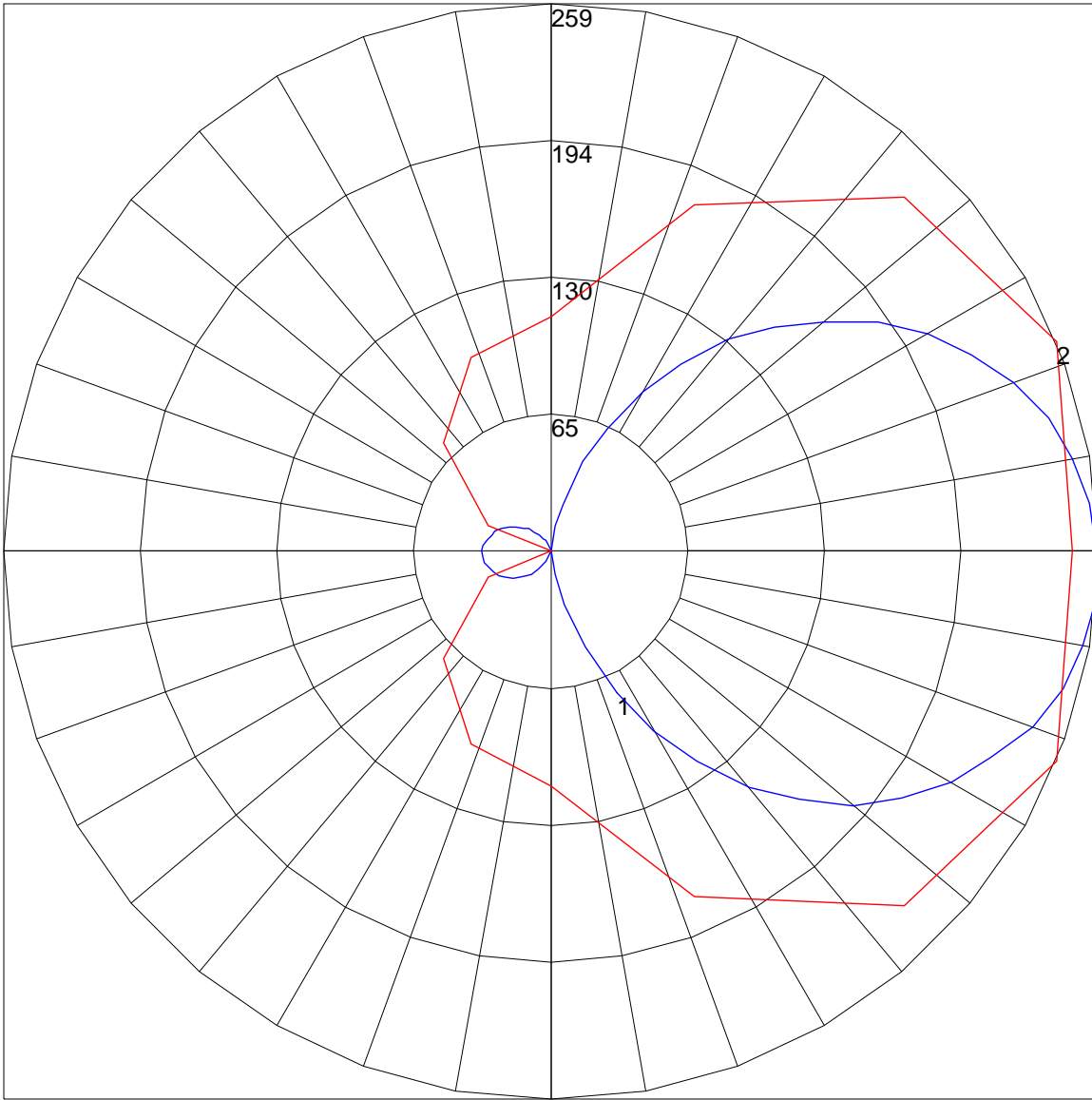
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

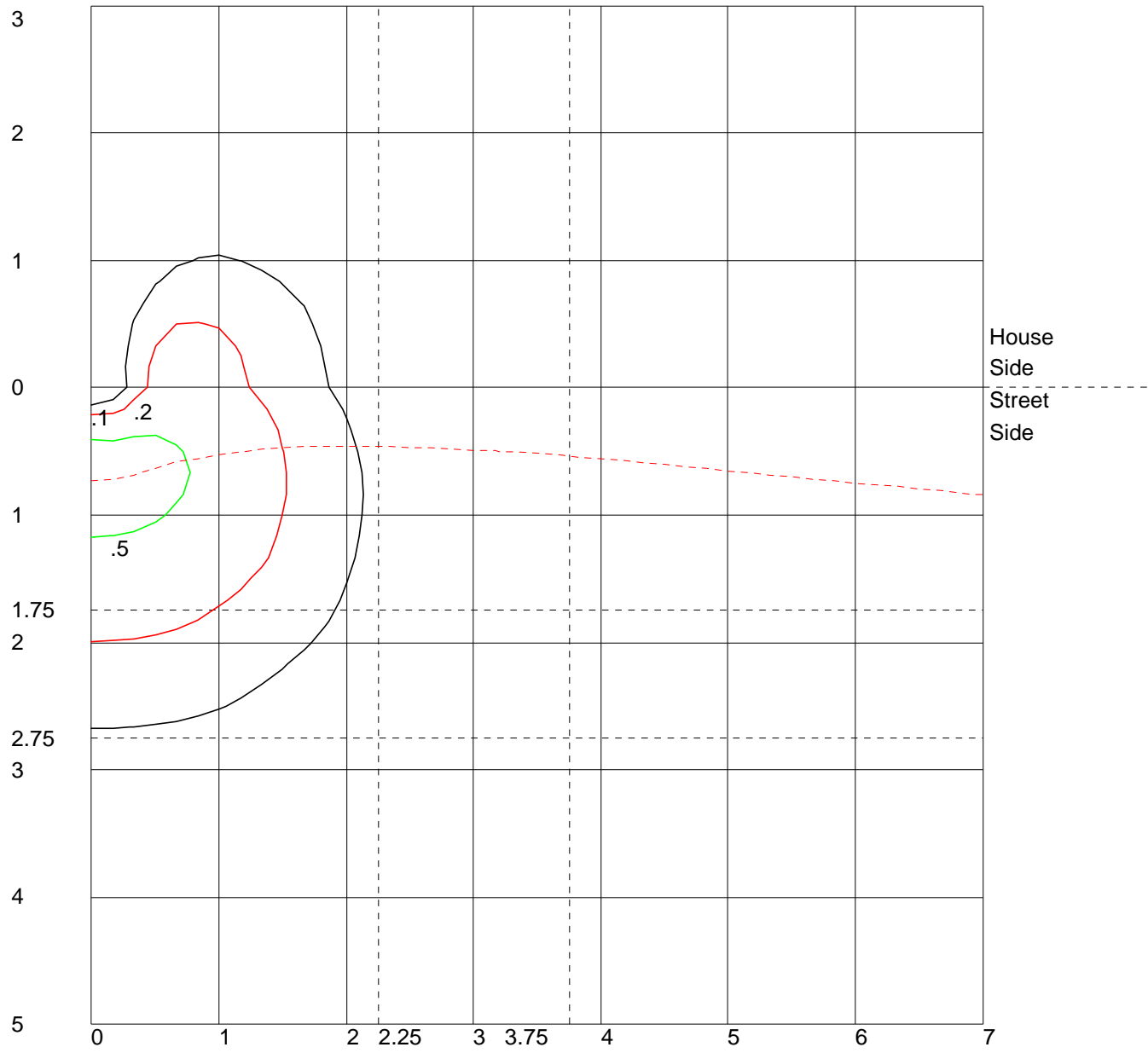
	Lumens	Percent Of Lamp
Downward Street Side	493.8	5.5
Downward House Side	148.4	1.6
Downward Total	642.2	7.1
Upward Street Side	471.1	5.2
Upward House Side	140.3	1.6
Upward Total	611.4	6.8
Total Flux	1253.6	13.9

POLAR GRAPH



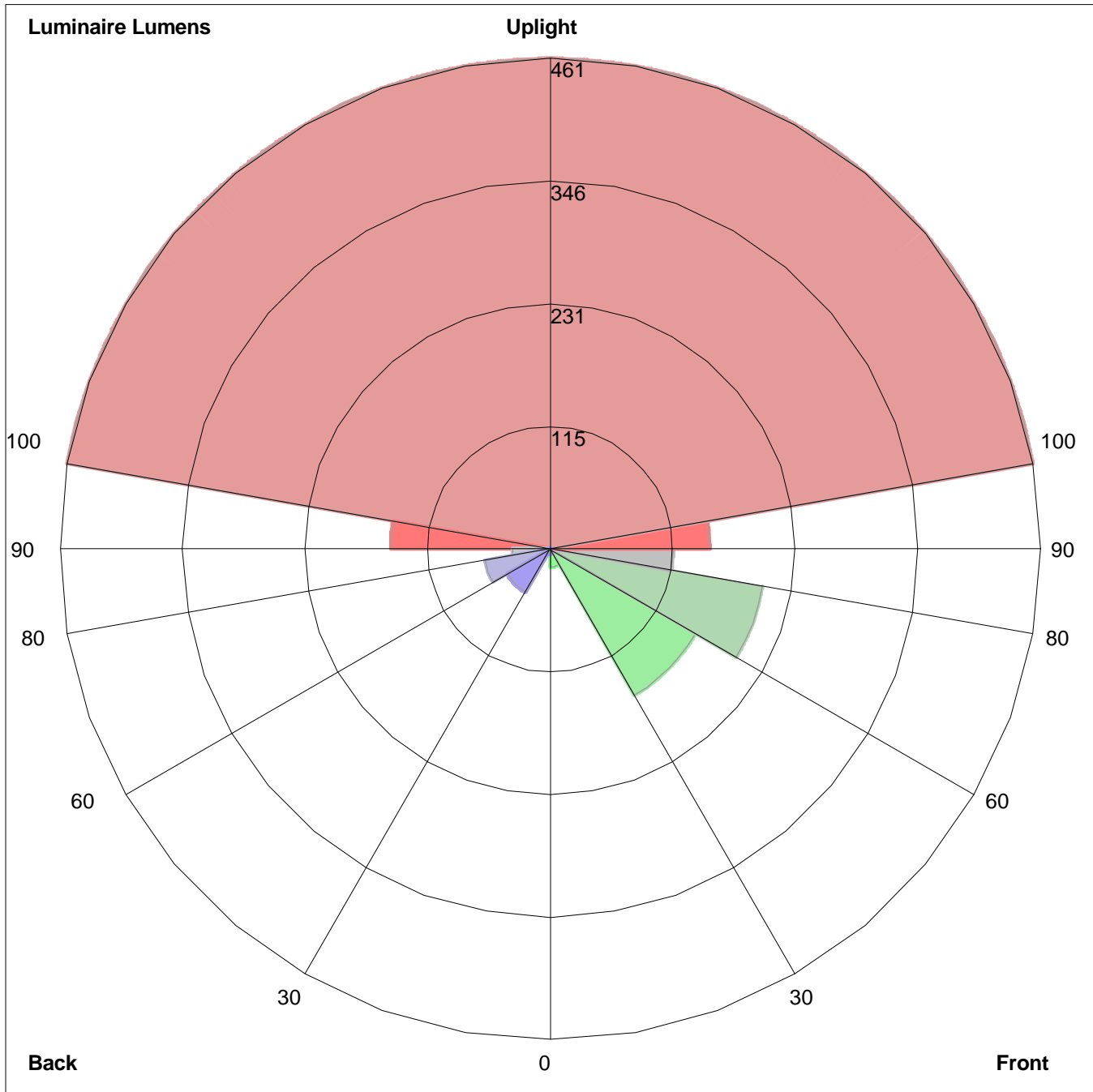
Maximum Candela = 259 Located At Horizontal Angle = 22.5, Vertical Angle = 85
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (85) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
 Values Based On 10 Foot Mounting Height
 1/2 Maximum Candela Trace Shown As Dashed Curve
 (+) = Maximum Candela Point

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=16.9, Medium=158.4, High=202.7, Very High=115.7
Back: Low=4.6, Medium=46.6, High=61.8, Very High=35.4
Uplight: Low=150.0, High=461.4

BUG Rating : B0-U3-G1