



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

Planning Commission Staff Report

Project Type: Site Development Section Plan

Meeting Date: March 9, 2015

From: Purvi Patel
Project Planner

Location: 18501 Outlet Boulevard

Applicant: Simon Property Group and the Woodmont Company

Description: **Chesterfield Blue Valley, Lot 2A/B (2nd Amended Site Development Section Plan - St. Louis Premium Outlets)**: A 2nd Amended Site Development Section Plan, Amended Landscape Plan, Amended Lighting Plan, Amended Architectural Elevations, and Architect's Statement of Design for a 78,297 square foot addition to an existing 394,994 square foot retail outlet center on a 49.29 acre tract of land zoned "PC" Planned Commercial District on the north side of Outlet Blvd., east of its intersection with Premium Way.

PROPOSAL SUMMARY

Simon Property Group and the Woodmont Company have submitted a request to add four (4) buildings, Buildings 9, 10, 11 and 12, totaling 78,300 (approx.) square feet in floor area to Lot 2A/B of Chesterfield Blue Valley. This would be an addition to the eight (8) existing retail buildings that includes 394,994 square feet, for a total of 473,291 square feet of retail outlet space. These additional four (4) buildings will be an extension of the existing center and is intended to create a seamless transition between Phase 1 and Phase 2 of the development.

The subject site is zoned "PC" Planned Commercial District and is governed under the terms and conditions of City of Chesterfield Ordinance Number 2805. The exterior building materials will match the existing materials on the site and will be comprised of brick and stone veneer, EIFS, smooth face architectural metal, exposed steel structure, painted concrete wall with sand texture finish, metal trellis and glass. The roof is proposed to be primarily a flat membrane roof system with parapet walls.

The 2nd Amended Site Development Section Plan request before you pertains to just the additional four (4) buildings and associated improvements on the northern end of the outlet site and not the entire 49.29 acre tract of Lot 2A/B. To help differentiate between the existing mall and the Phase 2 addition, the applicant has either greyed out Phase 1 or has shown a call-out bubble around Phase 2 on the submitted plans.

HISTORY OF SUBJECT SITE

St. Louis County originally zoned the area now known as Chesterfield Blue Valley “NU” Non-Urban District prior to the incorporation of the City of Chesterfield. Those areas north of the Chesterfield Monarch Levee also included a “FP” Flood Plain Overlay in addition to the “NU” Non-Urban District Zoning classification. 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.

In 2010, the City of Chesterfield approved Ordinance 2612 to change the zoning of the six (6) acre Brasher Property from “NU” Non-Urban District to a “PC” Planned Commercial District; and to consolidate the existing “PC” Planned Commercial District with this newly zoned “PC” Planned Commercial District to form one, 137.6 acre, “PC” Planned Commercial District governed under the same ordinance.

The most recent ordinance amendment occurred in early August, when the City of Chesterfield approved Ordinance 2805 to change the parking setback between internal lot lines from ten (10) feet to zero (0) feet; all the other setback requirements remained unchanged.

The Site Development Concept Plan for Chesterfield Blue Valley was approved by the City Council on May 7th, 2012. Later that month the Site Development Section Plan for St. Louis Premium Outlets was approved by City Council as well. In March 2013, the Site Development Section Plan was administratively approved for minor changes to the site. The Outlet Mall opened its doors in August 2013.

On December 1st, 2014 City Council approved a Lot Split for Lot 2. The purpose of the Lot Split was to subdivide the St. Louis Premium Outlets on Lot 2 into a Phase One (existing) and Phase Two (proposed) for financial purposes.

Furthermore, there is an approved Sign Package and Amended Sign Package for the development which was approved by the Planning Commission on February 23rd, 2013 and August 12th, 2013. The developer has submitted a 2nd Amended Sign Package to include the signs associated with Phase 2 and will be presented to the Planning Commission on March 9, 2015 as well.



Land Use and Zoning of Surrounding Properties

Direction	Land Use	Zoning
North	Levee/ Flood Plain/ Missouri River	"FPNU" Flood Plain Non-Urban District
South	Chesterfield Blue Valley (Vacant)	"PC" Planned Commercial District
East	Interstate 64 / Highway 40	N/A
West	Chesterfield Blue Valley (Vacant)	"PC" Planned Commercial District

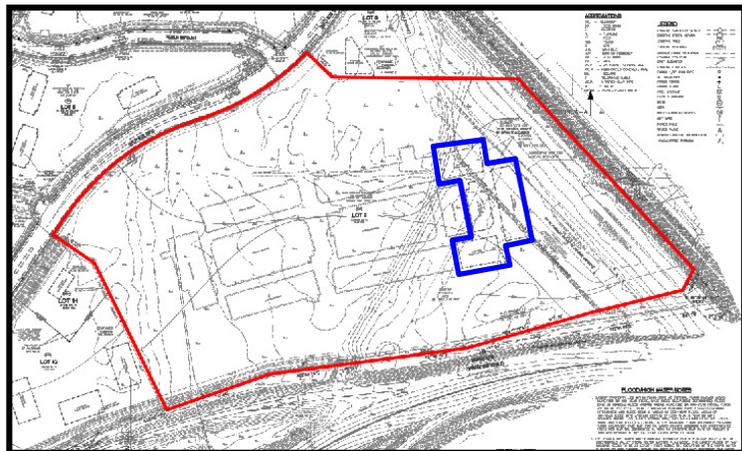
STAFF ANALYSIS

Zoning

The subject site is zoned "PC" Planned Commercial District under the terms and conditions of City of Chesterfield Ordinance 2805. This ordinance allows for a total building floor area not to exceed 1,400,000 square feet for the entire Chesterfield Blue Valley development and thus far the existing 394,994 square foot Outlet Mall is the only built structure in this development. Plans for a Burlington store as well as a Gas Mart gas station with a convenience store were approved by the Planning Commission in 2014. The construction for the Burlington store is under way and the Improvement Plans for Gas Mart are under review. In addition to these projects, there are two additional Section Plans for the Chesterfield Blue Valley development under review with Staff currently, Gander Mountain and Cavender's Boot City. The table below shows a break-down of the approved and proposed buildings in Chesterfield Blue Valley:

Chesterfield Blue Valley Projects			
Lot Number	Tenant	Total Square Feet	Project Status
Lot 1A	Gas Mart	7,812	Improvement Plans under review
Lot 1C	Cavender's Boot City	19,250	Section Plan under review
Lot 1H	Gander Mountain	60,000	Section Plan under review
Lot 2	St. Louis Premium Outlets (Phase I)	394,994	Constructed in Oct. 2013
Lot 2	St. Louis Premium Outlets (Phase II)	78,297	Section Plan under review
Lot 5D-2	Burlington	54,980	Under construction
Total Building Area (approved/under review)		615,333	
Total Building Area Permitted Per Ordinance		1,400,000	
Remaining allowable Building Area		784,667	

The Preliminary Plan provided during zoning and approved by the City of Chesterfield included this expansion. The four (4) building proposed as part of Phase 2 are outlined in blue in the image below.



Traffic Access and Circulation

A Traffic Impact Study for the Chesterfield Blue Valley development was provided in 2005 during the first rezoning of the initial 55.8 acres of the proposed development. In November 2007, an update was prepared for the original traffic study to address the property within the entire development as it stands today. This Traffic Impact Study was reviewed and accepted for approximately 800,000 square feet of retail development. All required road improvements have been constructed per the Study and as required by MoDOT, St. Louis County and the City of Chesterfield; therefore, an update to this study is not required at this time. Furthermore, Staff is in regular contact with the Missouri Department of Transportation and St. Louis County regarding the Traffic Impact Study and developments within Chesterfield Blue Valley.

There are no changes required or proposed to the circulation system approved for the development or to the existing entrances to this lot. The incorporation of the Phase 2 buildings will necessitate the extension of the existing mall loop road further to the north; however, the ring road design around the buildings will be maintained. Similar to the access to the site, there are no changes warranted to the existing sidewalks installed along Outlet Boulevard as part of the first phase of the development.

Furthermore, Premium Outlets was built as a freestanding outdoor complex of buildings with open pedestrian streets and courtyards. Currently, a series of internal pedestrian streets between the building footprints are provided along with an outdoor food pavilion area, as well as covered roof areas along the internal pedestrian areas. Pedestrian connections are also made from the parking areas to the mall entrances around the development. These pedestrian connections will be continued through Phase 2, again creating a seamless transition between the two phases.

Parking

The site was reviewed under the Retail Center parking requirements for the number of required parking spaces for this development. Per City Code, the development is required 2,252 parking spaces and the proposal is for 2,300 parking spaces which includes 48 ADA accessible spaces. This yields 48 additional spaces above and beyond City Code requirements.

Furthermore, Staff has conducted parking counts on the site at different times of the day during business hours and found close to 75% of the existing parking lot vacant during each visit. The table on the next page summarizes the findings:

St. Louis Premium Outlets Parking Counts Phase 1 (2029 spaces total on site)				
Date	Time	Number of Cars on Site	Number of available parking spaces	Percentage of available parking
9/9/2014	10.30am	320	1709	84.2%
9/11/2014	12.15pm	475	1554	76.6%
9/15/2014	4.30pm	390	1639	80.8%
9/19/2014	4.30pm	425	1604	79.1%
10/6/2014	1.30pm	525	1504	74.1%
2/5/2015	3.15pm	350	1679	82.8%
2/20/2015	4.15pm	440	1589	78.3%
2/23/2015	12.15pm	245	1784	87.9%
2/23/2015	3.45pm	345	1684	83.0%

During these site visits, it was found that the majority of the parking spaces near the entrances were full which is commonly seen in all retail areas. However, in contrast most of the parking areas close to the levee and Interstate 64 were available. Below are some images taken by Staff on October 6th, 2014 showing these findings; as you can see, the first two pictures show the majority of the spaces near the main entrances of the mall occupied but the parking spaces on the northern and southern portions of the site are mostly vacant.



Parking near the main entrance of the mall



Parking on the rear entrance of site (closest to highway)



Parking on southern boundary of Lot 2A/B



Parking on the northern boundary of Lot 2A/B

Landscaping and Open Space

The proposed Landscape Plan was reviewed against the City’s Tree Preservation and Landscape Requirements. The landscape plan is designed to include a variety of landscape materials with water quality features scattered throughout the parking area and the overall development. The applicant submitted a request for modification for the required trees on the northern portion of the site, as this area is located within a Protective Underseepage Berm Easement, established by the Monarch Chesterfield Levee District. As this easement protected area does not allow penetration greater than 18 inches in depth, the applicant’s request for modification was approved. Therefore a portion of the parking area will not have any trees or shrubs, but will only have turf planted in the islands. A similar request was approved during the Phase I Section Plan review due to the same Underseepage Berm Easement restrictions. To mitigate the required trees in the northern parking field, the applicant has included an additional 231 trees in various areas throughout the site.

Furthermore, the planned district ordinance for the Chesterfield Blue Valley Development requires a minimum of 30% open space. As presented, this development will provide 31% open space.

Architectural Elevations

The proposed buildings mimic the existing buildings in terms of materials and are consistent in colors to Phase I. The exterior building will be comprised of brick and stone veneer, EIFS, smooth face architectural metal, exposed steel structure, painted concrete wall with sand texture finish, metal trellis and glass. Furthermore similar to Phase I, the Phase II buildings include a broad mix of materials and earth tone colors with accent colors at the entrance locations. Primary building materials include “painted masonry walls with texture finish” and an “exterior insulation plaster system.” Brick and stone veneers in vertical and horizontal bands break up the larger, more service oriented elevations. Additionally, the roof is proposed to match the existing roofing on the buildings and will primarily be a flat membrane roof system with parapet walls.

Similar to Phase 1, the design of the buildings for Phase 2 includes elements of varying heights. The primary building heights for Phase 2 range from 19 to 24 feet and include a tower measuring 39’6” in height, which is shorter than the existing towers for Phase 1. For comparison, existing and proposed building heights are provided on the next page. In addition, the image shows the existing towers on Buildings 4 and 5 and the tallest tower (Building 2) in the background.

Phase 1			Proposed Phase 2	
Building		Tower Height	Building	Tower Height
1		38'-0"	9	No tower
2		60'-0"	10	No tower
3	(a)	45'-0"	11	39'-6"
3	(b)	38'-0"	12	No tower
3	(c)	34'-6"		
4		40'-0"		
5		45'-0"		
6		50'-0"		



Ordinance 2805 states “The developer shall submit an overall design package for the development, including, but not limited to architectural elevations, colored renderings and building materials”. This overall design package was approved by the Planning Commission on February 25th, 2013. The architectural standards for the development, as approved, are as follows:

General

CBV, LLC envisions a project design based on the character, principles and theme of the Prairie Style of architecture which contains horizontal lines, flat or hipped roofs with broad overhanging eaves, and window groups in horizontal banks as the principle means of architectural expression. The goal is for a coordinated, upscale design theme present in every architectural and landscape feature including built form, lighting, exterior furniture and landscaping. The historic Brasher House, if reused, would be an exception. It is not the intent of these standards to limit or diminish use of “corporate trade dress” on store fronts.

Material Palette

Brick and stone veneer, exterior insulation plaster system (EIFS), smooth face architectural metal, exposed steel structure, painted concrete wall panels with sand texture finish, open metal trellises, glass and aluminum store fronts and curtain walls, canvas and metal awnings, and appropriate cornices and overhangs will be acceptable.

Color Palette

Earth tones accompanied by complimentary accent colors for view corridors and arrival points will be the standard.

As discussed on Page 6, these architectural features have been included in the design of the building and tie into the Prairie Style theme of the Chesterfield Blue Valley development.

The project was reviewed by the Architectural Review Board (ARB) on September 12th, 2013. A motion to forward to the Planning Commission was approved by the ARB by a vote of 5-0 with the following recommendation:

1. The applicant should consider improving the pedestrian connection from the additional parking area to the mall entryways.

In response to the ARB's request, the applicant added three connection points from the proposed parking areas to the northern mall entrances, similar to those provided near other entry points. The number of crosswalk areas was increased from seven (7) in Phase 1 to twelve (12) in Phase 2.

Please note, the Applicant was not prepared to proceed to Planning Commission for review until this time.

Lighting

Similar to the building architecture, the new buildings will incorporate the same light fixtures as previously approved in Phase 1. The proposed lighting for the Phase 2 development includes numerous utilitarian and architectural lighting fixtures already existing in Phase 1 and the City of Chesterfield Code allows for alternate lighting arrangements and lighting levels to be submitted and reviewed by the City. See the attached lighting cut-sheets of all lighting fixtures proposed for Phase 2.

The parking areas include 61 fixtures mounted on 30 foot (excluding concrete base of approximately 30 inches) standards. The fixtures are called out as "S1" and "S2" fixtures on the Lighting Plan and are flat lens and fully shield. **These fixtures will match the existing fixtures on the site.**

In addition, the proposal includes 17 "FL" fixtures near the northern boundary of the site. These fixtures are flood lights which will project light outwards towards the parking area within the Underseepage Berm Easement, since they are prohibited from installing parking lot lighting in the easement protected areas. The applicant has requested these fixtures, as structures and vegetation cannot penetrate deeper than 18 inches within the easement protected areas. The foundation of the concrete base required for the parking lot fixtures exceeds the 18 inch limit as seen in the Pole Detail provided on the Lighting Plan. The City of Chesterfield's Lighting Standards require parking lot lighting to be fully-shielded flat-lens enclosed fixtures; however, for the areas encumbered by the Underseepage Berm Easement, the applicant is requesting a partially shielded fixture. The request from the applicant notes the partially shielded fixtures will be equipped with a glare shield to limit off-site glare trespass. Furthermore, the photometrics shown on the Lighting Plan show that there will be no light trespass.

In order to achieve the minimum illumination standards set forth in the City's Lighting Standards, the illumination level five (5) feet from the base of the light standard greatly exceeds that listed in the code. The maximum initial level five (5) feet from the base of a light standard for commercial parking areas is

eight (8) footcandles and the applicant is proposing a maximum level of 23.6 footcandles. The higher levels are a result of illuminating the parking areas in the Underseepage Berm Easement area at a minimum of 0.5 footcandles, which is required by Code. The minimum standard of 0.5 footcandles in parking areas is required to create a safe environment in hours of darkness. If the request for this fixture is not approved, a large portion of the parking area will be dark, creating a safety issue on the site.

A copy of the applicant's request is included in the Planning Commission's packet for review. If the Planning Commission chooses to approve the proposed Lighting Plan, these two requests will be approved as well.

Staff has reviewed the submitted Lighting Plan, including parking lot lighting modification discussed above, and recommends approval of the Amended Lighting Plan as submitted and presented to the Planning Commission for the reasons discussed above.

DEPARTMENT INPUT

Staff has reviewed the submittal for Phase 2 of the St. Louis Premium Outlets and recommends approval of the development as submitted. Staff has reviewed the submittal for Phase 2 and has found the proposal to be in compliance with the site specific ordinance, the Site Development Concept Plan, Comprehensive Plan, and all City Code requirements; and as discussed above, Staff recommends approval of the lighting modification request as well.

MOTION

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

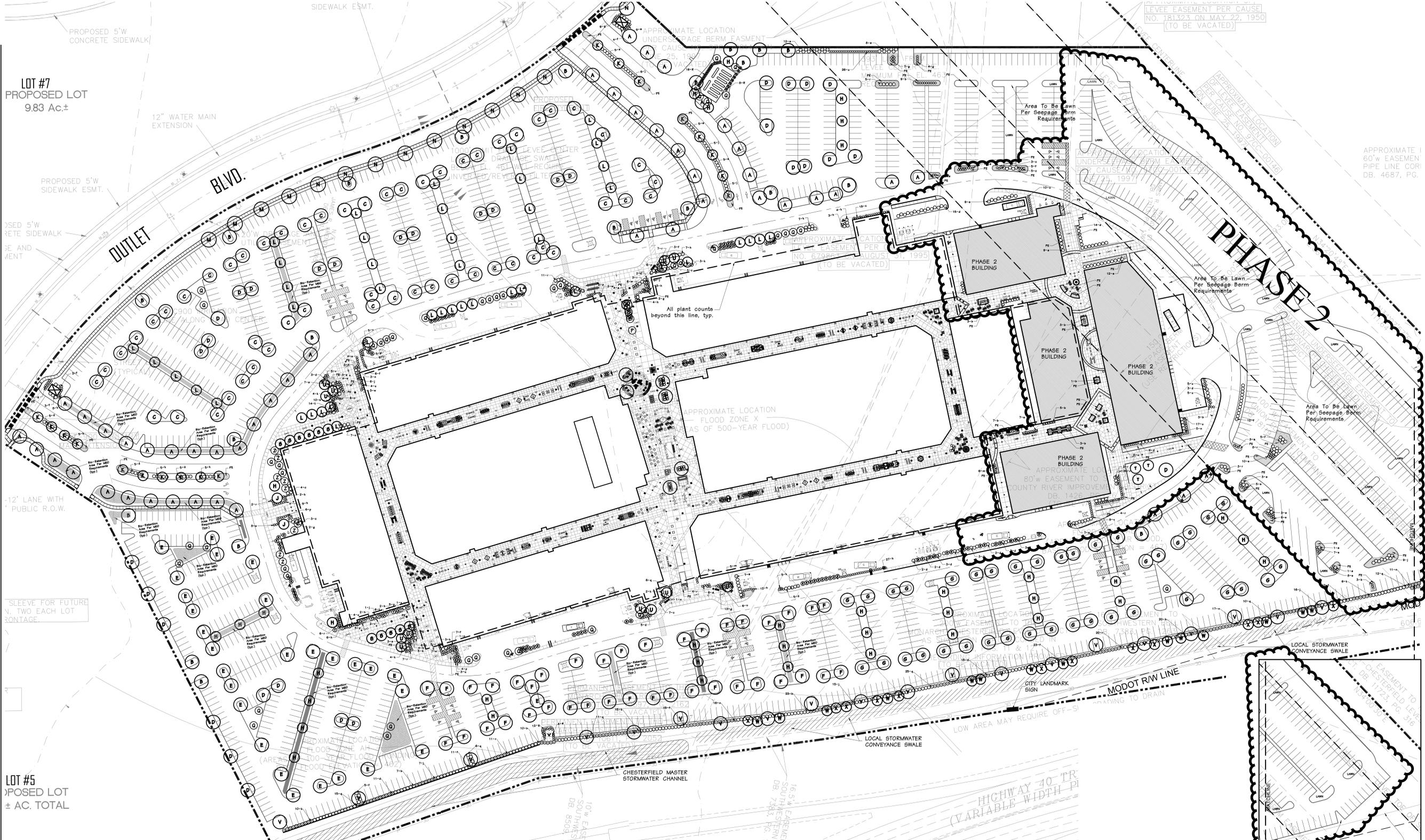
- 1) "I move to approve (or deny) the 2nd Amended Site Development Section Plan, Amended Landscape Plan, Amended Lighting Plan, Amended Architectural Elevations, and Architect's Statement of Design for Chesterfield Blue Valley, Lot 2A/B (St. Louis Premium Outlets) as submitted.

*** As discussed on Page 8, if the Planning Commission chooses to approve the proposed Amended Lighting Plan, the two modification requests will be approved as well.**

- 2) "I move to approve the 2nd Amended Site Development Section Plan, Amended Landscape Plan, Amended Lighting Plan, Amended Architectural Elevations, and Architect's Statement of Design for Chesterfield Blue Valley, Lot 2A/B (St. Louis Premium Outlets), with the following conditions..." (Conditions may be added, eliminated, altered or modified)

Attachments: 2nd Amended Site Development Section Plan
Amended Landscape Plan
Amended Lighting Plan
Amended Lighting Cut-sheets
Applicant's Lighting Modification Request
Architect's Statement of Design
Amended Architectural Elevations

CC: Aimee Nassif, Planning and Development Services Director



LOT #7
PROPOSED LOT
9.83 Ac.±

LOT #5
PROPOSED LOT
± AC. TOTAL



LANDSCAPE PLAN

SCALE 1" = 60'

- GENERAL NOTES:**
- 1) Open space required: 30% of total site (15.20 acres)
Open Space provided: 15.36 acres
 - 2) All street trees will be located at least 3' from proposed curb.
 - 3) All street trees will be located at least 10' from all storm sewer structures.
 - 4) All turf areas will be seeded.
 - 5) An in-ground irrigation system will be provided. Bioretention and naturalized planting area shall be established and maintained with alternative watering methods.

BIO-RETENTION PLANTING SCHEDULE				
SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
	<i>Carex pregracilllis</i>	Tollway Sedge	2" x 2" x 5" DCP	12" O.C.
	<i>Carex shortiana</i>	Short's Sedge	2" x 2" x 5" DCP	12" O.C.
	<i>Sporobolus heterolepis</i>	Prairie Dropseed Grass	2" x 2" x 5" DCP	12" O.C.
	<i>Iris virginica</i>	Southern Blueflag Iris	2" x 2" x 5" DCP	12" O.C.
	<i>Rudbeckia fulgida</i>	Orange Coneflower	2" x 2" x 5" DCP	12" O.C.

SHRUB PLANTING SCHEDULE					
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
a	34	<i>Berberis thunbergii</i> 'Royal Burgundy'	Royal Burgundy Barberry	18"-24"	
b	115	<i>Buxus microphylla</i> 'Winter Gem'	Winter Gem Boxwood	18"-24"	
c	56	<i>Calamagrostis acutiflora</i> 'Karl Foerster'	Karl Foerster Feather Reed Grass	3 Gal.	
d	105	<i>Cornus sericea</i> 'Flaviramea'	Yellow Twig Dogwood	2-3'	
e	124	<i>Euonymus alatus</i> 'Compacta'	Dwarf Burning Bush	2-3'	
f	116	<i>Juniperus chinensis</i> 'Sea Green'	Sea Green Juniper	2-3'	
g	60	<i>Spiraea x bumalda</i> 'Anthony Waterer'	A.W. Spiraea	18"-24"	
h	84	<i>Sporobolus heterolepis</i>	Prairie Dropseed Grass	3 Gal.	
j	77	<i>Syringa patula</i> 'Miss Kim'	Miss Kim Lilac	18"-24"	
k	86	<i>Viburnum x burkwoodii</i>	Burkwood Viburnum	2-3'	
m	14	<i>Hydrangea macrophylla</i> 'Red Sensation'	Forever Red Hydrangea	18"-24"	
n	61	<i>Cornus sericea</i> 'Cardinal'	Red Twig Dogwood	2-3'	
p	36	<i>Chaenomeles speciosa</i> 'Texas Scarlet'	Texas Scarlet Quince	18"-24"	
q	85	<i>Taxus x media</i> 'Densiflora'	Densiflora Yew	18"-24"	
r	103	<i>Rosa x 'Radrazz'</i>	Knockout Rose	18"-24"	
e	70	<i>Spiraea japonica</i> 'Lemon Princess'	Lemon Princess Spiraea	18"-24"	
t	20	<i>Rhus aromatica</i> 'Grolow'	Gro-Low Sumac	18"-24"	
u	88	<i>Itea virginica</i> 'Sprich'	Little Henry Virginia Sweetpire	2-3'	
v	47	<i>Pennisetum alopecuroides</i> 'Moudry'	Moudry Fountain Grass	3 Gal.	
w	15	<i>Festuca glauca</i> 'Elijah's Blue'	Elijah's Blue Fescue	3 Gal.	
x	14	<i>Rhododendron x 'Hot Shot'</i>	Hot Shot Azalea	18"-24"	
PE	2,000	Perennials	Daylily, Black Eyed Susan, Coreopsis, Hosta, Liriope	3 qt.	

TREE PLANTING SCHEDULE							
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS	MATURE HEIGHT	GROWTH RATE
A	49	<i>Acer rubrum</i> 'Armstrong'	Armstrong Maple	2.5"	Deciduous	35'-45'	Fast
B	21	<i>Zelkova serrata</i>	Japanese Zelkova	2.5"	Deciduous	45'+	Fast
C	55	<i>Acer x freemanii</i> 'Jefferson'	Autumn Blaze Maple	2.5"	Deciduous	45'+	Fast
D	33	<i>Gleditsia triacanthos</i> 'Inermis'	Thornless Honeylocust	2.5"	Deciduous	45'+	Fast
E	28	<i>Prunus sargentii</i> 'Columnaris'	Columnar Sargent Cherry	2.5"	Ornamental	30'-40'	Medium
F	39	<i>Oxydendrum arboreum</i>	Sourwood	2.5"	Deciduous	20'-30'	Slow/Med.
G	38	<i>Carpinus betulus</i>	European Hornbeam	2.5"	Deciduous	35'-40'	Slow/Med.
H	37	<i>Carpinus caroliniana</i>	American Hornbeam	2.5"	Ornamental	20'-35'	Medium
J	2	<i>Cercis canadensis</i>	Redbud	2.5"	Ornamental	25'-30'	Fast
K	18	<i>Pyrus calleryana</i> 'Chanticleer'	Chanticleer Pear	2.5"	Ornamental	15'-25'	Medium
L	45	<i>Amalanchier arborea</i>	Serviceberry	2.5"	Ornamental	25'-30'	Slow
M	4	<i>Tilia cordata</i>	Littleleaf Linden	2.5"	Deciduous	45'+	Medium
N	10	<i>Quercus coccinea</i>	Scarlet Oak	2.5"	Deciduous	45'+	Medium
P	0	<i>Carpinus betulus</i> 'Franz Fontaine'	Franz Fontaine Hornbeam	2.5"	Ornamental	35'-40'	Slow/Med.
Q	42	<i>Pinus strobus</i>	Eastern White Pine	6"	Evergreen	35'-40'	Fast
R	113	<i>Platycladus orientalis</i>	Oriental Arborvitae	6"	Evergreen	30'-40'	Slow
S	12	<i>Prunus serrulata</i> 'Kwanzen'	Kwanzen Cherry	2.5"	Ornamental	20'-25'	Medium
T	18	<i>Syringa meyeri</i> 'Palibin'	Dwarf Lilac Tree	2.5"	Ornamental	5'-8'	Medium
U	12	<i>Malus x 'Spring Snow'</i>	Spring Snow Crab	2.5"	Ornamental	20'-30'	Medium
V	20	<i>Quercus bicolor</i>	Swamp White Oak	2.5"	Deciduous	45'+	Medium
W	14	<i>Prunus cerasifera</i> 'Thundercloud'	Purple Leaf Plum	2.5"	Ornamental	20'-30'	Medium
X	12	<i>Crataegus phaenopyrum</i>	Washington Hawthorn	2.5"	Ornamental	20'-30'	Medium
Y	4	<i>Ginkgo biloba</i> 'Autumn Gold'	Autumn Gold Ginkgo	4"	Deciduous	45'+	Medium
Z	9	<i>Picea glauca</i>	White Spruce	6"	Evergreen	35'-40'	Medium

100 Madison Ave
Tulsa, OK 74104
419.242.7405 tel
419.242.7400 fax
www.thecollaborativeinc.com
tci@thecollaborativeinc.com

the COLLABORATIVE inc

ARCHITECTS
LANDSCAPE ARCHITECTS
INTERIOR DESIGNERS
PLANNERS
CONTRACT FURNISHINGS

Plan prepared by:

loomisAssociates
landscape architects/planners
200 S.W. 40th Street, Suite 100
Tulsa, OK 74104
419.242.7400
loomis@loomis-associates.com

PREMIUM OUTLETS
SIMON

WOODMONT OUTLETS

PROJECT TITLE
ST. LOUIS PREMIUM OUTLETS
Chesterfield, MO

CHECKED BAR
APPROVED JAS

SHEET TITLE
SECOND AMENDED SITE DEVELOPMENT SECTION PLAN

SHEET NO.
L-1
LANDSCAPE PLAN

WLS LIGHTING SYSTEMS

FV SERIES

SPECIFICATIONS
HOUSING - The FV Series formed aluminum housing is finished to produce a clean, sharp appearance and ensures weather-tight construction. Available in 2 sizes: Medium (medium reduced envelope 400 Watt Lamp) and Reduced (reduced envelope 1000 Watt Lamp).

LENS/GASKET - A flat tempered glass lens is sealed to the housing with an EPDM gasket, preventing entry of moisture, dust and insects. Combined with the vertical beam fixture, the flat glass lens provides high performance lighting.

TOP ACCESS - Is secured by four captive stainless steel fasteners and provides ease of installation and servicing.

FINISHES - Each fixture is finished with a baked-on polyester powder finishing process to give the fixture an exceptionally attractive appearance. Standard finish colors include bronze, buff, black, platinum, white, green. The polyester finish withstands extreme weather changes without cracking or peeling. Consult factory for available custom colors and printsize decal options.

REFLECTORS/DISTRIBUTION PATTERNS - The FV Series fixture is available in five reflector systems and distribution patterns, all with vertical beam lamps: Type II (2), Type III (3), Type V (5), Perimeter Forward Three (F3) and Super Reflector (SR) for a minimum mounting height of 20 feet. Reflectors are field rotatable, enabling generous flexibility in distribution patterns without fixture movement.

LIGHT SOURCES - Designed to operate with Pulse-Start Metal Halide, Natural White, Super Metal Halide, Metal Halide, Metal Halide Reduced Envelope or High Pressure Sodium.

SOCKETS - Porcelain mogul-base sockets with spring-reinforced contacts.

BALLAST - Pulse Start Metal Halide, Metal Halide, Super Metal Halide, and High Pressure Sodium feature a high-power-factor CWA ballast, and are designed for 207°F operation.

BRACKETS - Arm Mount: 5 1/2" x 2 1/2" x 1 1/2" length slotted standard. (An 8" bracket is available for single or D180 configurations, but must be ordered separately from Options column of the ordering chart.) A Round Pole (RP) is required for mounting to 3"-5" round poles. (See Options in Luminaire Ordering Information.)

Pole Top - Cast aluminum mounting hub conceals the wiring compartment and mounting hardware consisting of four 1/16" O.D. aluminum rods for medium fixtures and 7/8" O.D. aluminum rods for large fixtures, and high-strength grade-five steel bolt with nylon insert and split lock washer for double locking.

DECAL STRIPING - WLS offers optional color-coordinated decals in 9 standard colors to accent the fixture. Decal is guaranteed for five years against peeling, cracking, or fading.

WLS LIGHTING SYSTEMS

FL1 SERIES

SPECIFICATIONS
HOUSING - FL1 housing is one-piece, die-cast aluminum ensuring weather-tight construction.

DOOR FRAME - The one-piece die-cast aluminum lens frame is hinged and secured to the housing with four captive screws.

LENS / GASKET - FL1 has a one-piece, high-impact, flat clear tempered glass lens. The lens frame features a continuous silicone gasket for maximum sealing to the housing.

SOCKETS - Porcelain mogul-base sockets feature nickel-plated lampholder screw shell.

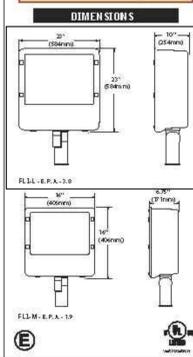
LIGHT SOURCES - Pulse Start Metal Halide, Full Spectrum, Metal Halide, and High Pressure Sodium.

BALLASTS - CWA high-power-factor type ballast. All ballast types are designed for 207°F operation.

OPTICS - All FL1 fixtures are available with a precision-formed aluminum wide beam reflector for optimum photometric performance. Photometric data is tested in accordance with IESNA guidelines.

MOUNTING - Mounting arm accepts 2 3/8" O.D. x 4 3/4" minimum tenon. FL1-M is available with horizontal pole mount.

FINISH - Back FL1 fixture is powder coated baked on bronze, black, platinum plus, or white enamel finish.



SHIPPING WEIGHTS - FL1 Series

Configuration	Est. Weight (lbs)	Length (inches)	Width (inches)	Height (inches)
FL1-M	30.0	8.0	8.0	10.0
FL1-L	30.0	8.0	8.0	10.0

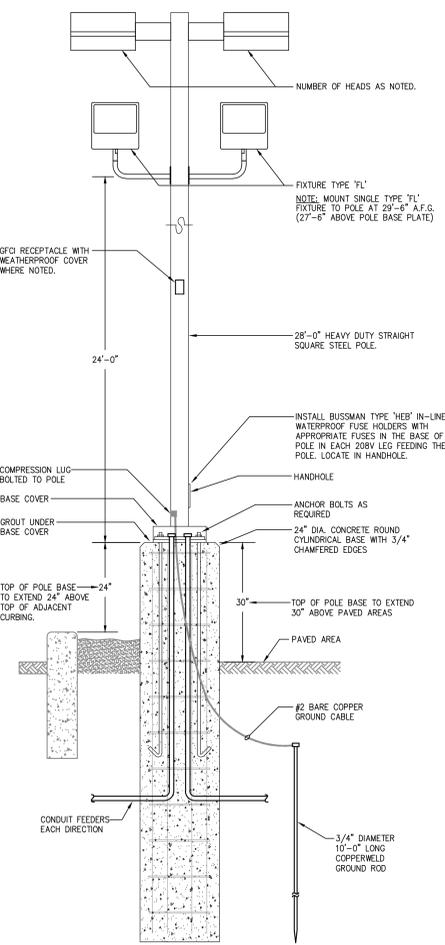


Calculation Summary

Label	Units	Avg	Max	Min	Avg/Min	Max/Min	PtSpCr	PtSpTb
PARKING SUMMARY	Fc	2.2	23.6	0.0	N.A.	N.A.	15	15

Luminaire Schedule

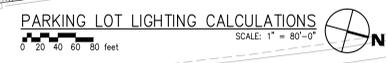
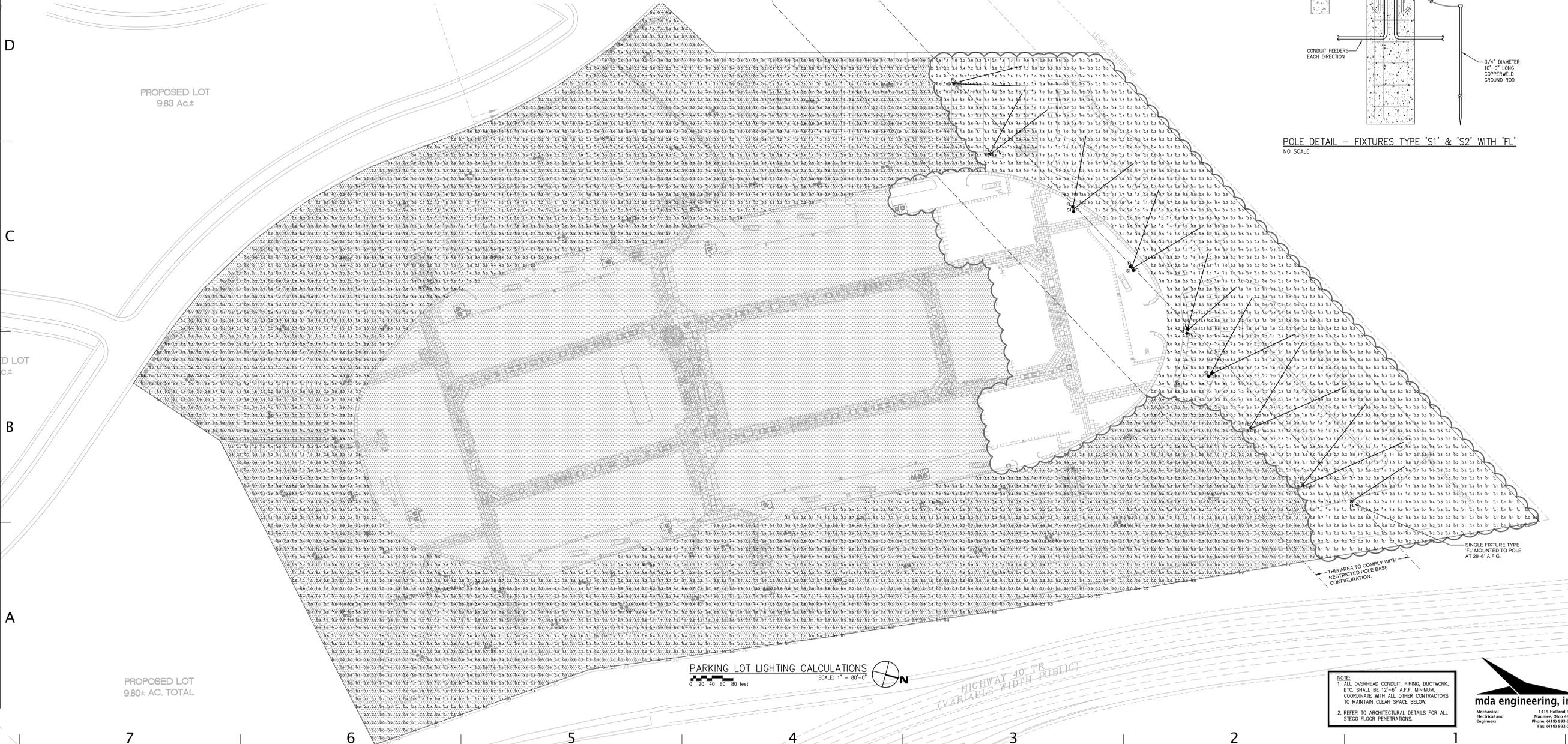
Symbol	Qty	Label	Lumens	LLF	Description
●●	44	S1	28500	0.900	WLS-FVM-5-400-NW-PSMH-FG 30' MOUNTING HEIGHT
●●	17	S2	28500	0.900	WLS-FVM-3-400-NW-PSMH-FG 30' MOUNTING HEIGHT
●●	17	FL	110000	0.900	WLS-FL1-L-1000-MH-FG-MT-GS 26' MOUNTING HEIGHT



POLE DETAIL - FIXTURES TYPE 'S1' & 'S2' WITH 'FL'
 NO SCALE

Approved By: _____ Project Name: _____
 Location: _____ Date: _____
WLS LIGHTING SYSTEMS
 1919 Windsor Place • Fort Worth, TX 76110 • 800.633.8711 • Fax: 817.355.4824 • www.wslighting.com • Consider the Impact!
 Specifications subject to change without notice. © Rev. 10/11

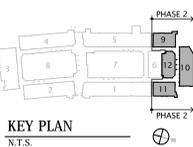
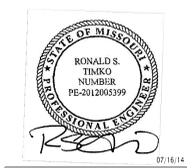
Approved By: _____ Project Name: _____
 Location: _____ Date: _____
WLS LIGHTING SYSTEMS
 1919 Windsor Place • Fort Worth, TX 76110 • 800.633.8711 • Fax: 817.355.4824 • www.wslighting.com • Consider the Impact!
 Specifications subject to change without notice. © Rev. 10/11



NOTE:
 1. ALL OVERHEAD CONDUIT, PIPING, DUCTWORK, ETC. SHALL BE 12'-6" A.F.F. MINIMUM. COORDINATE WITH ALL OTHER CONTRACTORS TO MAINTAIN CLEAR SPACE REQUIREMENTS.
 2. REFER TO ARCHITECTURAL DETAILS FOR ALL STEGO FLOOR PENETRATIONS.



THE COLLABORATIVE
 architecture | landscape architecture
 interior design | planning | graphic design
 5500 Madison Avenue, Toledo, Ohio 43604
 419.242.7405 | thecollaborative.com



PREMIUM OUTLETS
 SIMON
WOODMOUNT OUTLETS

PROJECT TITLE
St. Louis Premium Outlets
 Phase 2 Expansion
 18521 Outlet Boulevard
 Chesterfield, Missouri 63005

CHECKED: RSK
 APPROVED: CRK

TCI JOB NO. 106193

SHEET TITLE
PARKING LOT LIGHTING CALCULATIONS

SHEET NO.
LC-1

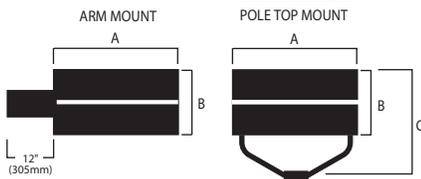
MDA #13064
 Mechanical Electrical and Engineers
 1413 Hubbard Road
 Maumee, Ohio 43537
 Phone: 419.893.9141
 Fax: 419.893.0687

WLS LIGHTING SYSTEMS

FV VERTICAL LAMP / FLAT GLASS LENS SERIES



DIMENSIONS



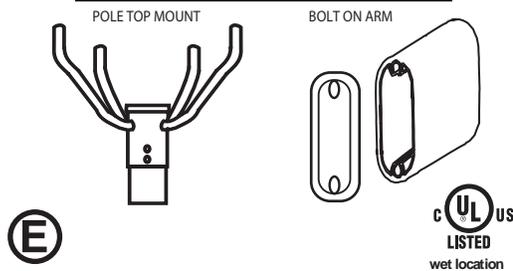
	A	B	C
FVM Arm Mount	21-5/8"(549mm)	12-3/4"(324mm)	—
FVMPT Pole Top	21-5/8"(549mm)	12-3/4"(324mm)	21-15/16"(557mm)
FVR Arm Mount	21-5/8"(549mm)	16-1/8"(410mm)	—
FVRPT Pole Top	21-5/8"(549mm)	16-1/8"(410mm)	25"(635mm)

LUMINAIRE EPA CHART

FV SERIES Flat Lens	FVM SERIES 12" Bracket	FVR SERIES 12" Bracket
Single	3.2	3.8
D180°	6.3	7.6
D90°	5.7	7.6
T90°	8.8	11.4
TN120°	9.0	11.4
Q90°	11.3	15.2
Pole Top	3.2	4.0

Note: House Side Shield adds to fixture EPA. Consult factory.

MOUNTING BRACKETS



SPECIFICATIONS

HOUSING - The FV Series formed aluminum housing is finished to produce a clean, sharp appearance and ensures weather-tight construction. Available in 2 sizes: Medium (reduced envelope 400 Watt Lamp) and Reduced (reduced envelope 1000 Watt Lamp).

LENS/GASKET - A flat tempered glass lens is sealed to the housing with an EPDM gasket, preventing entry of moisture, dust and insects. Combined with the vertical burn feature, the flat glass lens provides high performance lighting.

TOP ACCESS - Is secured by four captive stainless steel fasteners and provides ease of installation and servicing.

FINISHES - Each fixture is finished with a baked-on polyester powder finishing process to give the fixture an exceptionally attractive appearance. Standard finish colors include bronze, buff, black, platinum, white green. The polyester finish withstands extreme weather changes without cracking or peeling. Consult factory for available custom colors and pinstripe decal options.

REFLECTORS/DISTRIBUTION PATTERNS - The FV Series fixture is available in five reflector systems and distribution patterns, all with vertical burn lamps: Type II (2), Type III (3), Type V (5), Perimeter Forward Throw (FP) and Super Reflector (SR) for a minimum mounting height of 30 feet. Reflectors are field-rotatable, enabling generous flexibility in distribution patterns without fixture movement.

LIGHT SOURCES - Designed to operate with Pulse-Start Metal Halide, Natural White, Super Metal Halide, Metal Halide, Metal Halide Reduce Envelope or High Pressure Sodium.

SOCKETS - Porcelain mogul-base sockets with spring-reinforced contacts.

BALLAST - Pulse Start Metal Halide, Metal Halide, Super Metal Halide, and High Pressure Sodium feature a high-power factor CWA ballast, and are designed for -20°F operation.

BRACKETS - Arm Mount: 5 1/2" x 2 1/2" x 12" length shipped standard. (An 8" bracket is available for single or D180 configurations, but must be ordered separately from Options column of the ordering chart.) A Round Pole Plate (RPP) is required for mounting to 3" - 5" round poles. (See Options in Luminaire Ordering Information.)

Pole Top: Cast aluminum mounting hub conceals the wiring compartment and mounting hardware (consisting of four 11/16" O.D. aluminum rods for medium fixtures and 7/8" O.D. aluminum rods for large fixtures, and high-strength grade-five steel bolt with nylon insert and split lock washer for double locking.)

DECAL STRIPING - WLS offers optional color-coordinated decals in 9 standard colors to accent the fixture. Decal is guaranteed for five years against peeling, cracking, or fading.

Approved By: _____ Project Name: _____

Location: _____ Date: _____

1919 Windsor Place ■ Fort Worth, TX 76110 ■ 800.633.8711 ■ Fax: 817.735.4824 ■ www.wslighting.com

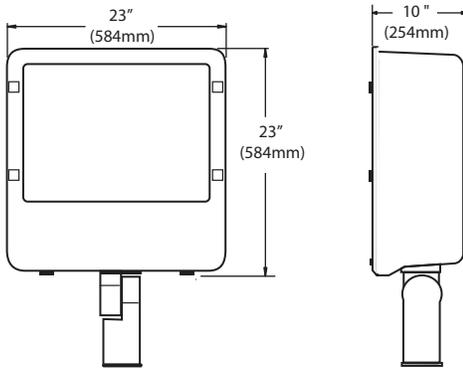
WLS LIGHTING SYSTEMS

Consider the Impact!

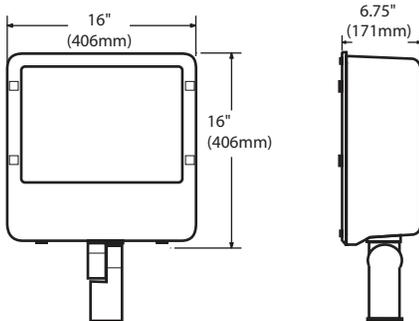
FL1 SERIES FLOODLIGHT



DIMENSIONS



FL1-L - E. P. A. - 3.8



FL1-M - E. P. A. - 1.9



SPECIFICATIONS

HOUSING - FL1 housing is one-piece, die-cast aluminum ensuring weather-tight construction.

DOOR FRAME - The one-piece die-cast aluminum lens frame is hinged and secured to the housing with four captive screws.

LENS / GASKET - FL1 has a one-piece, high-impact, flat clear tempered glass lens. The lens frame features a continuous silicone gasket for maximum sealing to the housing.

SOCKETS - Porcelain mogul-base sockets feature nickel-plated lamp grip screw shell.

LIGHT SOURCES - Pulse Start Metal Halide, Full Spectrum, Metal Halide, and High Pressure Sodium.

BALLASTS - CWA high-power factor type ballast. All ballast types are designed for -20° F operation.

OPTICS - ALL FL1 fixtures are available with a precision-formed anodized aluminum wide beam reflector for optimum photometric performance. Photometric data is tested in accordance with IESNA guidelines.

MOUNTING - Mounting arm accepts 2-3/8" O.D. x 4-3/4" minimum tenon. FL1-M is available with optional yoke mount.

FINISH - Each FL1 fixture is powder coated baked-on bronze, black, platinum plus, or white enamel finish.

SHIPPING WEIGHTS - FL1 Series

Catalog Number	Est. Weight (kg/lbs)	Length (mm/in)	Width (mm/in)	Height (mm/in)
FL1-M	15/34	610/24	464/18.25	241/9.5
FL1-L	32/70	635/25	635/25	305/12

Approved By: _____ Project Name: _____

Location: _____ Date: _____

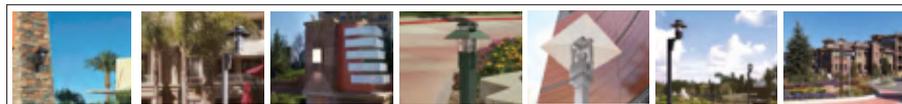
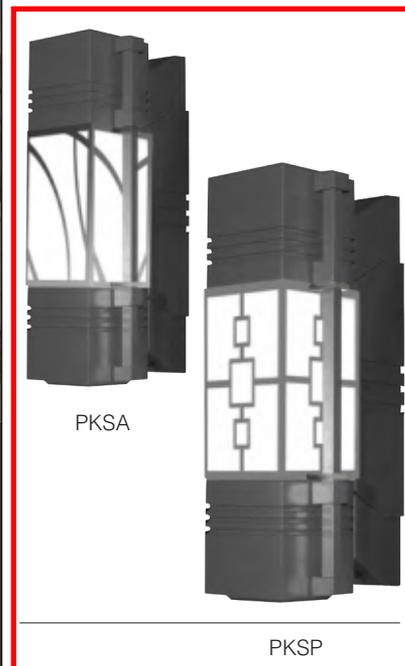
PKSA/PKSP

Parkway Square™ – Sconce

1 FIXTURE	2 LAMP/BALLAST	3 DECORATIVE SCREEN	4 OPTIONS			5 COLOR
			GENERAL	HOOD	SCREEN	



PAKWAY SQUARE
SCONCE



PARKWAY SQUARE FAMILY OF FIXTURES



PKWM



PKWS



PKWB



PKSA/PKSP

Features

- Six configuration, including down beam, down spread, up beam, up spread, down beam/up spread, up beam/down spread, and egress
- Available with highly efficient LEDs
- Six decorative screen options
- Tamper resistant hardware
- Cast aluminum struts
- Full cutoff options
- EISA compliant
- IP65 rated for horizontal configurations and IP66 rated for vertical configurations
- Powder coat finish in 13 standard colors with a polymer primer sealer

JOB INFORMATION

TYPE

JOB NAME

LAMP (BY OTHERS)

CUSTOMER

DATE

*Consult factory for any custom/
modified products*

APPROVALS



16555 East Gale Ave.
City of Industry | CA 91745
P 626.968.5666 | F 626.369.2695
www.aal.net | Copyright © 2012

1 FIXTURE	2 LAMP/BALLAST	3 DECORATIVE SCREEN	4 OPTIONS			5 COLOR
			GENERAL	HOOD	SCREEN	

1. FIXTURE

ACCENT (SMALL) SCALE

<input type="checkbox"/>	PKSA DB	Small - Down beam & egress
<input type="checkbox"/>	PKSA DS	Small - Down spread & egress
<input type="checkbox"/>	PKSA UB	Small - Up beam & egress
<input type="checkbox"/>	PKSA US	Small - Up spread & egress
<input type="checkbox"/>	PKSA DBUS	Small - Down beam/up spread & egress
<input type="checkbox"/>	PKSA UBDS	Small - Up beam/down spread & egress

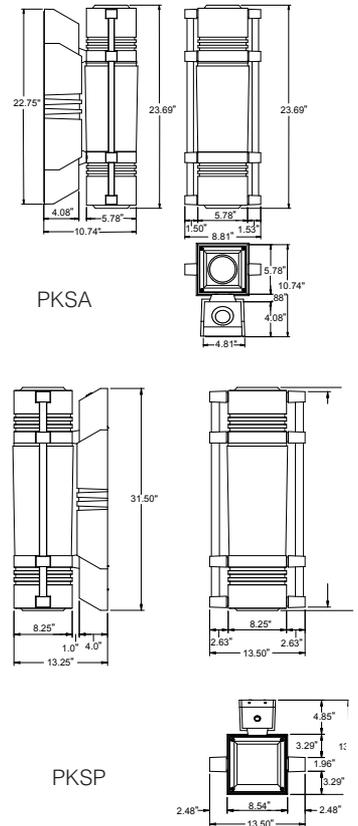
PEDESTRIAN (MEDIUM) SCALE

<input type="checkbox"/>	PKSP DB	Large - Down beam & egress
<input type="checkbox"/>	PKSP DS	Large - Down spread & egress
<input type="checkbox"/>	PKSP UB	Large - Up beam & egress
<input type="checkbox"/>	PKSP US	Large - Up spread & egress
<input type="checkbox"/>	PKSP DBUS	Large - Down beam/up spread & egress
<input type="checkbox"/>	PKSP UBDS	Large - Up beam/down spread & egress

2. LAMP/BALLAST

<input type="checkbox"/>	15LED-WW	15 light emitting diode array. Warm white (3500K). Class 2, 120 thru 277 volt. <i>For PKSA DS/US only.</i>
<input type="checkbox"/>	15LED-BW	15 light emitting diode array. Bright white (5100K). Class 2, 120 thru 277 volt. <i>For PKSA DS/US only.</i>
<input type="checkbox"/>	18LED-WW	18 light emitting diode array. Warm white (3500K). Class 2, 120 thru 277 volt. <i>For PKSP DS/US only.</i>
<input type="checkbox"/>	18LED-BW	18 light emitting diode array. Bright white (5100K). Class 2, 120 thru 277 volt. <i>For PKSP DS/US only.</i>
<input type="checkbox"/>	24LED-WW	24 light emitting diode array. Warm white (3500K). Class 2, 120 thru 277 volt. <i>For PKSA DBUS/UBDS only.</i>
<input type="checkbox"/>	24LED-BW	24 light emitting diode array. Bright white (5100K). Class 2, 120 thru 277 volt. <i>For PKSA DBUS/UBDS only.</i>
<input type="checkbox"/>	30LED-WW	30 light emitting diode array. Warm white (3500K). Class 2, 120 thru 277 volt. <i>For PKSP DBUS/UBDS only.</i>
<input type="checkbox"/>	30LED-BW	30 light emitting diode array. Bright white (5100K). Class 2, 120 thru 277 volt. <i>For PKSP DBUS/UBDS only.</i>
<input type="checkbox"/>	24PLL	24 watt PL-L compact fluorescent electronic 120/277 volt ballast. Specify wattage. <i>PKSA only.</i>
<input type="checkbox"/>	35R111	35 watt electronic metal halide R111, 120/277 volt. <i>PKSA only.</i>
<input type="checkbox"/>	20MMC	20 watt electronic metal halide ballast, 120 thru 277 volt. Use PGJ5 base, MiniMastercolor lamp. <i>PKSA only.</i>
<input type="checkbox"/>	39MMC	39 watt electronic metal halide ballast, 120 thru 277 volt. Use PGJ5 base, MiniMastercolor lamp. <i>PKSA only.</i>
<input type="checkbox"/>	50PLL	50 watt PL-L compact fluorescent electronic 120/277 volt ballast. Specify wattage. <i>PKSP only.</i>
<input type="checkbox"/>	39MHT6EB	39 watt electronic metal halide, 120 thru 277 volt ballast. Use G12 base, T-6 ceramic lamp. <i>PKSP only.</i>
<input type="checkbox"/>	70MHT6EB	70 watt metal halide ballast, 120/277/347 volt ballast. Use G12 base, T-6 ceramic lamp. <i>PKSP only.</i>
<input type="checkbox"/>	35R111	35 watt electronic metal halide R111, 120/277 volt. <i>PKSP only.</i>
<input type="checkbox"/>	70R111	70 watt electronic metal halide R111, 120/277 volt. <i>PKSP only.</i>

All fixtures prewired for 277 volts unless specified. Lamps not included (except IL and LED options). All applicable ballasts are EISA compliant. Mini MasterColor® is a registered trademark and CosmoPolis™ is a trademark of Philips Lighting®.



JOB INFORMATION
TYPE
JOB NAME
LAMP (BY OTHERS)
CUSTOMER
DATE
<i>Consult factory for any custom/modified products</i>
APPROVALS



1 FIXTURE	2 LAMP/BALLAST	3 DECORATIVE SCREEN	4 OPTIONS			5 COLOR
			GENERAL	HOOD	SCREEN	

5. DECORATIVE SCREENS (OPTIONAL)

Painted to match fixture. Also available in stainless steel or copper. Not available with horizontal or LED optics.



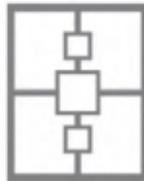
DSIN
Infinity design
painted to
match fixture.



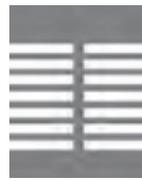
DSOF
Offset design
painted to
match fixture.



DSWH
Wheat design
painted to
match fixture.



DSTR
Trio design
painted to
match fixture.



DSSH
Shutter design
painted to
match fixture.



DSCS
Custom design*
painted to
match fixture.

6. OPTIONS

GENERAL

- DS39** Dual source - 39 watt mini mastercolor. Specify primary or secondary
- BBU** Integral battery backup
- NEG** No egress lamp. Opening is sealed with a cap and painted to match fixture.

DECORATIVE SCREEN

- CPR** Screen in brushed copper
- SSP** Screen in brushed stainless steel

7. COLOR

- | | |
|--|---|
| <input type="checkbox"/> AWT Arctic White | <input type="checkbox"/> MDG Medium Grey |
| <input type="checkbox"/> BLK Black | <input type="checkbox"/> ATG Antique Green |
| <input type="checkbox"/> MTB Matte Black | <input type="checkbox"/> LGY Light Grey |
| <input type="checkbox"/> DGN Dark Green | <input type="checkbox"/> SPP Salt and Pepper (premium) |
| <input type="checkbox"/> DBZ Dark Bronze | <input type="checkbox"/> SFM Seafoam (premium) |
| <input type="checkbox"/> WRZ Weathered Bronze | <input type="checkbox"/> WCP Weathered Copper (premium) |
| <input type="checkbox"/> BRM Metallic Bronze | <input type="checkbox"/> SHK Shamrock (premium) |
| <input type="checkbox"/> VBL Verde Blue | <input type="checkbox"/> RAL COLOR Provide a RAL 4 digit color number |
| <input type="checkbox"/> CRT Corten | <input type="checkbox"/> CUSTOM COLOR Please provide a color chip for matching |
| <input type="checkbox"/> MAL Matte Aluminum | |

JOB INFORMATION

TYPE _____

JOB NAME _____

LAMP (BY OTHERS) _____

CUSTOMER _____

DATE _____

Consult factory for any custom/modified products

APPROVALS

1	2	3	4			5
FITURE	LAMP/BALLAST	DECORATIVE SCREEN	OPTIONS			COLOR
			GENERAL	HOOD	SCREEN	

HOUSING

Parkway Square housings shall be cast aluminum, A356 alloy, free of any porosity, foreign materials, or cosmetic fillers. The vertical lens shall be opal, semi translucent high impact injection molded lighting grade acrylic and shall not be field replaceable. The vertical struts shall be cast aluminum and painted to match the fixture. The lens shall be sealed to the housing with a molded silicone gasket on the top and bottom. The optical lens frame shall be secured with four captive socket cap screws and shall be sealed with a one piece memory retentive, molded silicone gasket. The lamp compartment shall have a molded silicone plug to completely seal the optical system from insects or dirt emanating from the electrical box or conduit. Four stainless steel screws shall release the canopy to allow electrical access. All internal and external hardware shall be stainless steel and zinc.

REFLECTOR

The reflector is formed aluminum with bright dip anodized finish for pedestrian scale and bead blasted finish for accent scale fixtures.

ELECTRICAL

The ballast or LED driver electrical assembly shall be integral to the fixture and mounted to the cast canopy, the electrical assembly shall be prewired with a quick disconnect plug and removable by loosening two screws. All metal halide ballasts shall be electronic. T6 metal halide lamps shall use G12 sockets; R111 lamps shall use GX8.5 sockets; PL-L fluorescent lamps shall use 2G11 sockets. LED drivers shall have a drive current of 350mA. Standard color temperatures for Nichia NS6L183 and NS6W183 LEDs shall be 3500K and 5100K. The ballast or LED driver shall accept an input voltage of 120 through 277 volts and shall be wired at the factory for 277 volts, unless specified. The MR16 lamp for emergency egress feature shall be included and powered by 120 volt input transformed into low-voltage (12 volt) by the electronic transformer (included). The MR16 lamp shall use a miniature bi-pin base.

SAFETY

The fixture shall include an integral secondary source to provide path of egress illumination from building to the public way. The hidden MR16 lamp, powered as a remote head is able to be angle up to 15° in either direction.

WALL PLATE

Wall plate shall be secured into wall over j-box and shall be wired to the power circuit. Fixture shall be attached to the wall plate by four set-screws.

FINISH

Fixture finish shall consist of a five stage pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish. The finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance.

CERTIFICATION

The fixture is listed with ETL for outdoor, wet location use and shall conform to UL1598 and Canadian CSA Std. C22.2 no.9. IP65 rated for horizontal configurations and IP66 rated for vertical configurations.

WARRANTY

Fixture is warranted for three years. Driver components carry the driver manufacturer's limited warranty. Any unauthorized return, repair, replacement or modification of the Product(s) shall void this warranty. This warranty applies only to the use of the Product(s) as intended by AAL and does not cover any misapplication or misuse of said Product(s), or installation in hazardous or corrosive environments. Contact AAL for complete warranty language, exceptions, and limitations.

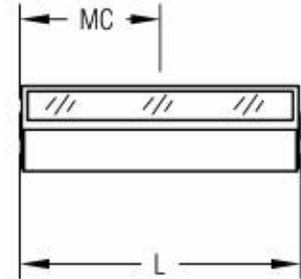
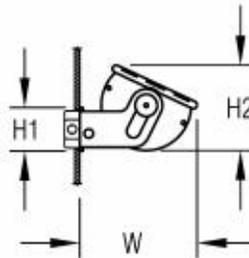
JOB INFORMATION
TYPE
JOB NAME
LAMP (BY OTHERS)
CUSTOMER
DATE
<i>Consult factory for any custom/modified products</i>
APPROVALS



SPI specification sheets are generated on demand in order to ensure the most current information possible. This sheet is current as of 12/28/11 02:17:39 and is subject to change without notice.

SPI
Echo Round 9.0
 Exterior Wall
EEW9501 Forward Throw

JOB NAME	TYPE 'C'
MODEL NO.	
LAMP	



Dimensions

W	L	MC	H1	H2
11.4 in (29 cm)	27.5 in (69.8 cm)	13.7 in (34.8 cm)	4.2 in (10.7 cm)	8.3 in (21.1 cm)

Description

Echo Round 9.0 is designed to address larger, high-ceiling spaces such as atriums, gymnasiums, libraries, natatoriums and open offices. Its vast lamping range and premium light control provides sufficient and visually uniform illumination to surfaces. Round's proportionate size and basic shape integrates seamlessly into a space.

Features

- Formed stainless steel yoke brackets equip the fixture with durable mounting components that will not rust or corrode.
- Standard thermoset polyester powder coat paint provides durable protection in a palette of color options. Custom colors available upon request.
- Extruded aluminum construction provides durable protection for internal components and is recyclable.
- Cast aluminum end caps protect internal components and are recyclable.
- Field adjustable housing locks into position, enabling precise fixture alignment for high-quality design performance.
- Tempered glass lens protects HID and tungsten halogen lamp engines.
- Premium 95% reflective aluminum is utilized in the highly-efficient and effective reflector design.

Weight

Consult Factory.

Contents
Features
Technical Notes
Ordering Information
Finishes

EEW9501 Technical Notes

Accessories

- Only one louver option can be specified per fixture.

Construction

- Luminaires over 27" in length have a two-piece yoke assembly.

Electrical

- Black weatherproof power cord with watertight fittings.
- HID versions have integral ballasts eliminating the need for remote mounting, simplifying installation.
- Thermally protected ballast limits operating temperature.
- Class "C" sound rated ballast.
- ETL listed to UL standards (US and Canada) for use in wet locations.

Finish

- Housing and mounting components painted to match, unless otherwise specified.

Mounting

- Steel cover fits over standard 4" octagonal junction box.

SPI specification sheets are generated on demand in order to ensure the most current information possible. This sheet is **current as of 12/28/11 02:17:39** and is subject to change without notice.

EEW9501 Forward Throw

Model Number/Style	Select Lamping	Select Voltage	Select Lamp Options
EEW9501 [FT]			

Not all options are available in all configurations, consult factory for details.

Lamping		Photometry		Voltage
1M175PS	1PSMH175/BT28/MOG/U	ITL62257		120V 120 Volt
1M250PS	1PSMH250/BT28/MOG	ITL62257		277V 277 Volt
1M315PS	1PSCMH315/T9/PGZ18			
1M320PS	1PSMH320/ED28/MOG			
1M350PS	1PSMH350/ED28/MOG	ITL62257		
1M400PS	1PSMH400/ED28/MOG	ITL62257		

Finish must be selected.

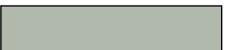
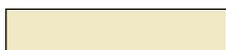
Lamp Options	
CS	Cut-off Shield
F	Fusing

SPI specification sheets are generated on demand in order to ensure the most current information possible. This sheet is current as of 12/28/11 02:17:39 and is subject to change without notice.

EEW9501 Forward Throw

The finishes shown here are representations of the standard color selections available for SPI Lighting products. There may be variations in color, texture and finish between the samples shown here and the actual product finishes. If a more accurate paint color or metal finish is required, please contact us at finishes@spilighting.com.

Painted Aluminum

 PT01² SuperWhite	 PT02¹ White	 PT03¹ Morning Light	 PT04¹ Warm White	 PT05¹ Putty
 PT06¹ Warm Beige	 PT07¹ Light Taupe	 PT08¹ Medium Taupe	 PT09¹ Medium Gray	 PT10¹ Dark Gray
 PT11¹ Black	 PT12¹ Dark Chocolate	 PT13¹ Warm Gray	 PT14¹ Light Gray	 PT15¹ Sage
 PT16¹ Spruce	 PT17¹ Red	 PT18¹ Deep Red	 PT19¹ Blue	 PT20¹ Dark Green
 PT21⁴ Pearl White	 PT22⁴ Platinum	 PT27⁴ Deep Copper	 PT28⁴ Dark Stainless	 PT29⁴ Red Brass
 PT31⁴ Medium Bronze	 PT32⁴ Dark Bronze	 PT33¹ Dark Blue	 PT40¹ Yellow	 PT41¹ Orange
 PT42¹ Sky Blue	 PT43¹ Teal	 PT44¹ Green	 PT45¹ Purple	 PT46³ Aluminum
 PT47³ Deep Red Brass	 PT48³ Brass	 PT49³ Bronze		

¹Textured ²Glossy ³Metallic Textured ⁴Metallic Glossy

Custom colors available, consult factory for details.

SPI specification sheets are generated on demand in order to ensure the most current information possible. This sheet is current as of 12/28/11 02:17:39 and is subject to change without notice.

FEATURES & SPECIFICATIONS

INTENDED USE— For building- and wall-mounted applications.

CONSTRUCTION — Rugged, die-cast, single-piece aluminum housing. Die-cast door frame has a 1/8" thick tempered glass lens. Door frame is fully gasketed with one-piece solid silicone.

OPTICS — Segmented reflectors for superior uniformity and control. Reflectors are interchangeable. Three full cutoff distributions available: FT (forward throw), MD (medium throw) and WT (wide throw).

ELECTRICAL — Ballast: 50W-150W utilizes a high reactance, high power factor ballast. Metal halide 150W and below are standard with pulse-start technology. 35S utilizes a reactance high power factor ballast. 175W utilizes a constant-wattage autotransformer ballast. CSA, NOM or INTL required for probe start shipments outside of the US for 175M. Not available 175M SCWA. Ceramic metal halide lamps are recommended for use in applications where superior color rendition, lumen maintenance and longer lamp life are desired.

Quick disconnect plug easily disconnects reflector from ballast. Ballasts are 100% factory-tested.

Socket: Porcelain, medium-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 660W, 600V 4KV pulse rated.

Finish: Standard finish is textured dark bronze (DDBT) corrosion-resistant polyester powder finish. Additional architectural colors are available. Striping is also available.

INSTALLATION — Universal mounting mechanism with integral mounting support allows fixture to hinge down. Bubble level provides correct alignment with each installation.

LISTINGS — UL Listed (standard). CSA Certified (see Options). Suitable for wet locations (damp location listed in lens-up orientation). WLU option offers wet location listing in up orientation (see Options). IP65 rated. 25°C ambient. ELED: U.S. Patent No. 7,737,640.

Note: Specifications subject to change without notice.

Catalog Number
Notes
Type 'D'



Decorative Wall-Mounted Lighting

WST

METAL HALIDE: 50W-175W
HIGH PRESSURE SODIUM: 35W-150W

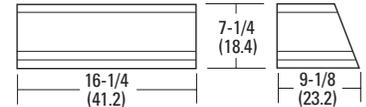
Specifications

Length: 16-1/4 (41.2)

Depth: 9-1/8 (23.2)

Overall Height: 7-1/4 (18.4)

*Weight: 30 lbs (13.6 kg)



All dimensions are inches (centimeters) unless otherwise indicated.

*Weight as configured in example below.

ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold)**.

Example: WST 100M FT TB LPI

WST	Wattage/source			MD	Voltage	Ballast	Mounting	Options
Series	Distribution							
WST	High pressure sodium	Metal halide	Ceramic metal halide	FT Forward throw	120	(blank) Magnetic ballast	(blank) Surface mount	Shipped installed in fixture
	35S ¹	50M	50MHC	MD Medium throw (coated lamp std.)	208 ³	CWI Constant wattage isolated	Shipped separately ⁷	SF Single fuse (120, 277, 347V) ⁸
	50S	70M	70MHC	WT Wide throw	240 ³	Pulse Start NO REGULATORY SERVICE	BBW Surface mount back box	DF Double fuse (208, 240V) ⁸
	70S	100M	100MHC		277		UT5 Uptilt 5 degrees	DC12 Emergency circuit 12-volt (35W lamp included) ⁹
	100S	150M	150MHC		347			2DC12 Emergency circuit 12-volt (two 35W lamps included) ⁹
	100S	175M ²	150MHC		TB⁴			DC2012 Emergency circuit 12-volt (20W lamp included) ⁹
	150S				23050HZ ⁵	SCWA Super CSA pulse start ballast ⁶		2DC2012 Emergency circuit 12-volt (two 20W lamps included) ⁹

Options (continued)						Finish ¹⁶	Lamp ¹⁸
ELED	Emergency LED secondary source battery pack with time delay (-4°F min. operating temperature) ¹⁰			QRS	Quartz restrike system ^{11, 15}	(blank) Dark bronze, textured	LPI Lamp included
2ELED	Emergency LED secondary source (two modules) battery pack with time delay (-4°F min. operating temperature) ¹⁰			WLU	Wet location door for up orientation	DSST Sandstone, textured	L/LP Less lamp
DFL	Diffusing lens			CSA	CSA certified	DNAT Natural aluminum, textured	
EC	Emergency circuit ^{11, 12}			NOM	NOM certified ⁵	DWHG White, textured	
IBS	Internal backlight shield ¹³			INTL	International shipment for 175M	DBLB Black, textured	
PE	Photoelectric cell-button type (n/a TB) ¹⁴					CR Corrosion-resistance	
						CRT Non-stick protective coating ¹⁷	

Notes

- 120V.
- These wattages do not comply with California Title 20 regulations.
- Must specify CWI for use in Canada.
- Optional multi-tap ballast (120, 208, 240, 277V); (120, 277, 347V in Canada; ships as 120V/347V).
- Consult factory for available wattages.
- Available with 150M or 150MHC only.
- May be ordered as an accessory with prefix "WS". Must specify finish.
- Not available with DC options.
- Not available with ELED, SF, DF, EC or QRS.
- Maximum wattage 100M, 70S. Must specify 120V or 277V. Not available with QRS, EC or DC.
- Maximum allowable wattage lamp included.
- Not available with ELED, QRS or DCs.

- Not available with medium throw (MD, MDU, MDU5) distributions.
- Must be ordered with fixture; cannot be field installed.
- Not available with ELED, EC or DCs.
- See www.lithonia.com/archcolors for additional color options.
- Black finish only.
- Must be specified. L/LP not available with MHC.

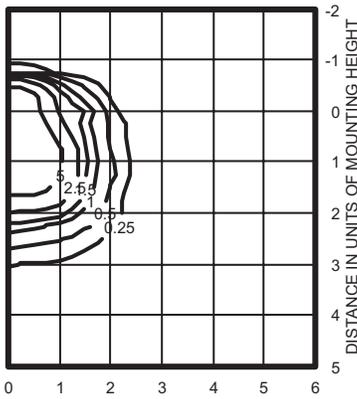


Consistent with LEED® goals & Green Globes™ criteria for light pollution reduction

WST Metal Halide, High Pressure Sodium Wall Mounted

WST 150MHC FT LTL11069P

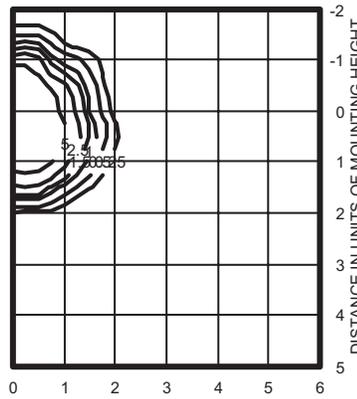
ISOILLUMINANCE PLOT (Footcandle)



150W pulse start metal halide lamp, horizontal lamp orientation Footcandle values based on 12' mounting height, 14000 rated lumens.
Luminaire Efficiency: 52.9%

WST 150MHC MD LTL11068P

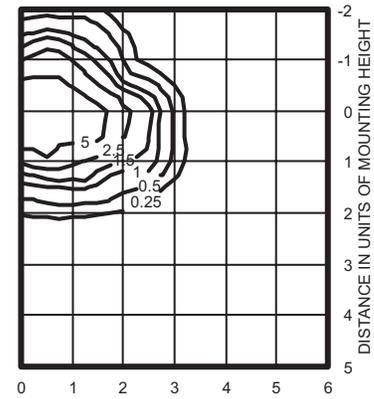
ISOILLUMINANCE PLOT (Footcandle)



150W pulse start metal halide lamp, horizontal lamp orientation Footcandle values based on 12' mounting height, 12500 rated lumens.
Luminaire Efficiency: 60.2%

WST 150MHC WT LTL11070P

ISOILLUMINANCE PLOT (Footcandle)



150W pulse start metal halide lamp, horizontal lamp orientation Footcandle values based on 12' mounting height, 14000 rated lumens.
Luminaire Efficiency: 62.5%

Lamp	Initial lumens	Mounting height			
		10'	12'	14'	16'
Metal Halide					
50W MH	3,900	0.43	0.30	0.22	0.17
70W MH	5,500	0.62	0.43	0.31	0.24
100W MH	8,500	0.95	0.66	0.48	0.37
150W MH	12,500	1.41	0.98	0.72	0.55
175W MH	12,800	1.44	1.0	0.73	0.56
High Pressure Sodium					
35W HPS	1,250	0.26	0.18	0.13	0.10
50W HPS	4,000	0.45	0.31	0.23	0.17
70W HPS	6,400	0.72	0.50	0.37	0.28
100W HPS	9,500	1.07	0.74	0.54	0.41
150W HPS	16,000	1.80	1.25	0.91	0.70

Emergency Option Lamp Compatibility							
Lamp options	DC12	2DC12	DC2012	2DC2012	EC	ELED	2ELED
# of lamps/wattage							
35S	■	■	■	■	■	■	■
50S	■	■	■	■	■	■	■
70S	■	■	■	■	■	■	■
100S	■	■	■	■	■		
150S	■	■	■	■	■		
50M	■	■	■	■	■	■	■
70M	■	■	■	■	■	■	■
100M	■	■	■	■	■	■	■
150M	■	■	■	■	■		
175M	■	■	■	■	■		

FEATURES & SPECIFICATIONS

INTENDED USE — For landscape and facade lighting.

CONSTRUCTION — Rugged, die-cast, single piece low copper alloy aluminum housing. Die-cast doorframe has impact-resistant, tempered, glass lens. Doorframe is fully sealed with a closed-cell silicone gasket. Standard finish is textured dark bronze (DDBT) polyester powder finish, with other architectural colors available. Patent No. D552,778.

OPTICS — Anodized aluminum reflectors; segmented, specular or hammertone finish for superior uniformity and control. Reflectors are interchangeable and allow for tool-less access to electrical components.

ELECTRICAL — 50W-150W utilizes a high reactance, high power factor ballast. 175W utilizes a constant-wattage autotransformer ballast. Quick disconnect plug easily disconnects reflector from ballast and fixture from supply wires. Ballasts are precision wound and 100% factory tested. UL Listed. CSA, NOM or INTL required for probe start shipments outside of the US for 175M. Not available with 175M SCWA. Ceramic metal halide lamps are recommended for use in applications where superior color rendition, lumen maintenance and longer lamp life are desired.

Socket: Porcelain, medium-base socket with copper alloy, nickel-plated screw shell and center contact.

INSTALLATION — Standard mounting is cast 3/4" threaded knuckle. Mounting mechanism features infinite locking points for aiming precision. Optional yoke mounting available, heavy-duty compact cast aluminum yoke adaptor to maintain fixture aesthetics. Provided with painted steel yoke and three feet of 16/3 SE00W cable.

LISTING — UL listed suitable for wet locations in all orientations. UL Listed to U.S. and Canadian safety standards (see Options). NOM Certified (see Options). IP66 rated. Canadian patent pending.

Note: Specifications subject to change without notice.

Catalog Number
Notes
Type 'E'



AERIS™
Architectural Floodlighting

ASF1

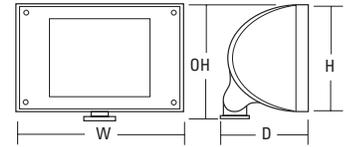
METAL HALIDE: 50W-175W
HIGH PRESSURE SODIUM: 50W-150W

Specifications

EPA: 1.20 ft²
Width: 15-1/2 (39.4)
Depth: 7-5/8 (19.4)
Height: 10 (25.4)
Overall Height: 10-7/8 (27.6)
*Max. Weight: 20 lbs (9.1 kg)

All dimensions are inches (centimeters) unless otherwise indicated.

*Weight as configured in example below.



ORDERING INFORMATION

For shortest lead times, configure products using **standard options** (shown in bold).

Example: ASF1 100M HSP TB LPI

Series	Wattage	Distribution	Voltage	Ballast	Mounting	Options	Finish ⁹	Lamp ¹⁰
ASF1	Metal halide	SP Spot	120	(blank) Magnetic ballast	Shipped installed	Shipped installed in fixture	DDBT Dark bronze, textured	LPI Lamp included
	50M	HSP Horizontal spot	208 ²	CWI Constant wattage isolated	(blank) Threaded knuckle	SF Single fuse (120, 277, 347V n/a TB)	DSST Sandstone, textured	L/LP Less lamp
	70M	NSP Narrow spot	240 ²	Pulse Start	YK Yoke mount	DF Double fuse (208, 240, 480V n/a TB)	DNAT Natural aluminum, textured	
	100M	WDF Wide flood	277	SCWA Super CWA pulse start ballast ⁵	Shipped separately^{6,7}	PE Photoelectric cell-button type (n/a 480V or TB) ⁸	DWHG White, textured	
	150M	MDF medium flood	347		AFSTMTHK Stanchion mount	CSA CSA certified	DWHL White, textured	
	175M ¹	VFN Vertical narrow	480 ²		AFWMATHK Wall mount arm	NOM NOM certified ⁴	DBLB Black, textured	
	Ceramic metal halide	VFW Vertical wide	TB ³		AFTS Tenon slipfitter	INTL International shipment for 175M	CR Corrosion resistance	
	50MHC		23050HZ ⁴		AFTMBTHK Twin mounting bar	Shipped separately⁶	CRT Non-stick protective coating (black only)	
	70MHC				AFWMPTHK Wall mount plate	ASF1GS Glare shield (upper or bottom visor) ⁷		
	100MHC				AFJB Architectural J-box	ASF1EV Eggcrate visor (black only)		
	High pressure sodium					ASF1FV Full visor ⁷		
	50S					ASF1BD Barn door ⁷		
	70S					ASF1BVG Vandal guard		
	100S					ASF1FV/BVG Full visor/vandal guard ⁷		
	150S							

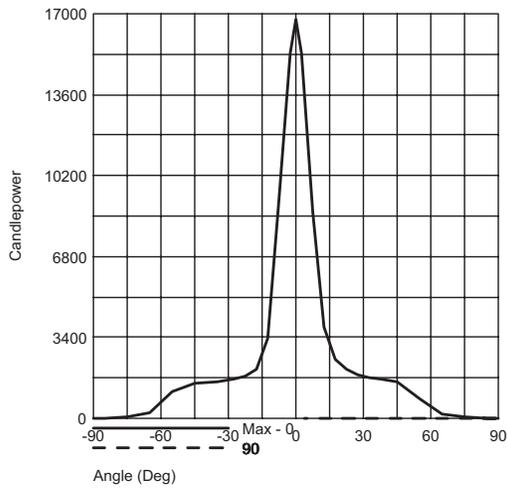
Notes

- These wattages do not comply with California Title 20 regulations.
- Must specify CWI in Canada.
- Optional multi-tap ballast (120, 208, 240, 277); (120, 277, 347V in Canada ships as 120/347).
- Consult factory for availability.
- Available with 150M or 150MHC only.
- May be ordered as an accessory.
- Must specify finish when ordered as an accessory.
- Must be ordered with fixture; cannot be field installed.
- See www.lithonia.com/archcolors for additional color options.
- Must be specified. L/LP not available with MHC.

ASF1 Metal Halide, High Pressure Sodium Architectural Flood

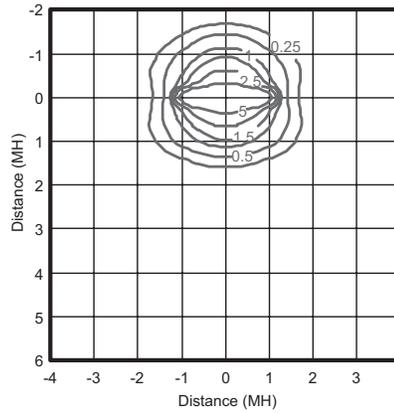
ASF1 150M HSP

TEST NO. LTL 14889P
Cartesian Plot



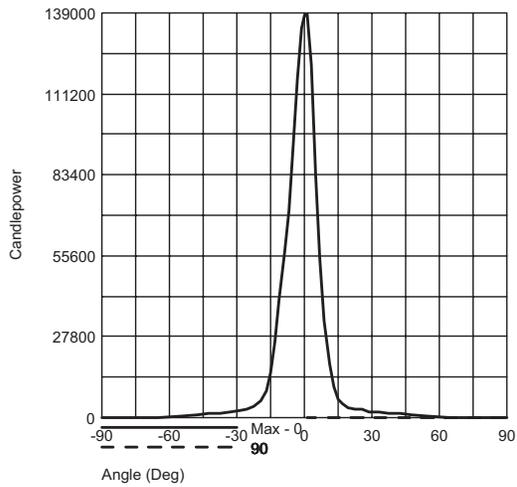
ISOILLUMINANCE PLOT (FC)

Mounting Height = 20 ft.
Classification: Unclassified (Type I, Very Short), Cutoff



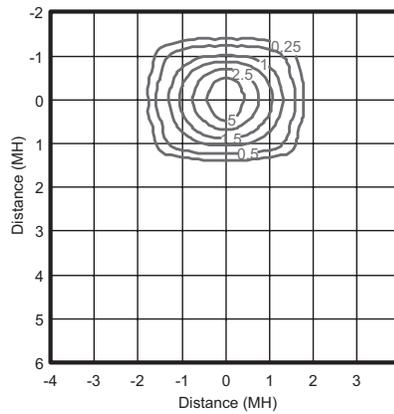
ASF1 150M NSP

TEST NO. LTL 148256P
Cartesian Plot



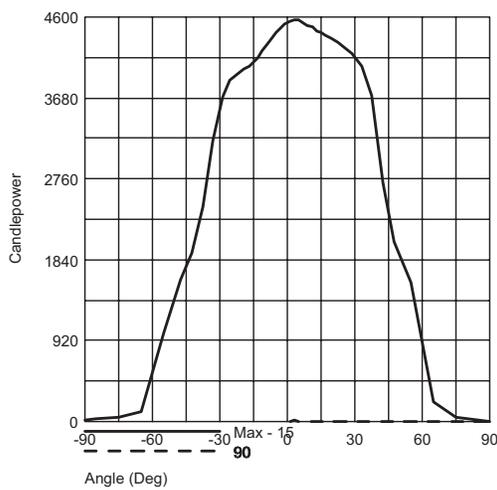
ISOILLUMINANCE PLOT (FC)

Mounting Height = 20 ft.
Classification: Unclassified (Type I, Very Short), Cutoff



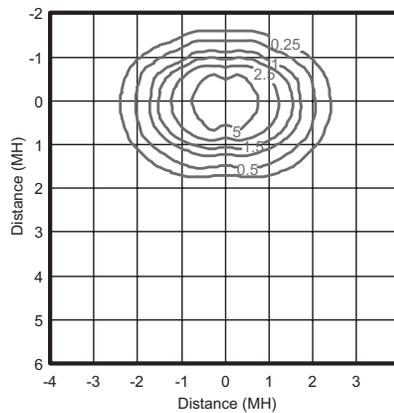
ASF1 150M WDF

TEST NO. LTL 14888P
Cartesian Plot



ISOILLUMINANCE PLOT (FC)

Mounting Height = 20 ft.
Classification: Unclassified (Type II, Very Short), Cutoff



FEATURES

OPTICAL SYSTEM

- Aluminum upper reflector coated with highly reflective white paint provides high efficiency and an evenly illuminated aperture appearance.
- Available with tempered prismatic lens (T73), flat Fresnel lens (FFL) or flat opal lens (FOL).
- Regressed white door (RW) or stepped black baffle (SB) available with white painted flange provided.
- Door is retained by self-aligning, torsion support springs, preventing gaps between door and ceiling.

MECHANICAL SYSTEM

- 16-gauge galvanized steel mounting/plaster frame with integral brackets to retain optical system. Maximum 1-1/2" ceiling thickness.
- 16-gauge galvanized steel mounting bars with continuous 4" vertical adjustment are shipped pre-installed. Post installation adjustment possible without the use of tools from above or below ceiling.
- Galvanized steel junction box with hinged access covers and spring latch. Two combination 1/2"-3/4" and three 1/2" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out) No. 12 AWG conductors rated for 90°C.

ELECTRICAL SYSTEM

- Rugged aluminum lampholder housing.
- Vertically-mounted, four-pin, positive-latch, thermoplastic socket.
- Class P, thermally-protected, high power factor, electronic ballast mounted to the junction box.

LISTING

- Fixtures are UL Listed for thru-branch wiring, Non-IC recessed mounting and wet locations. Listed and labeled to comply with Canadian Standards.

Type

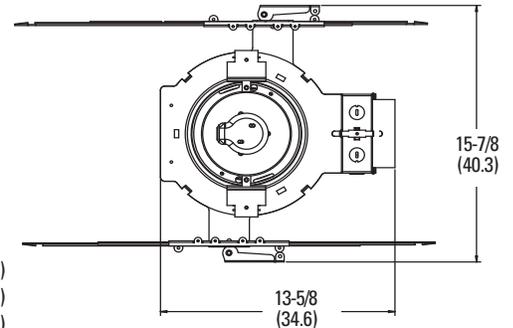
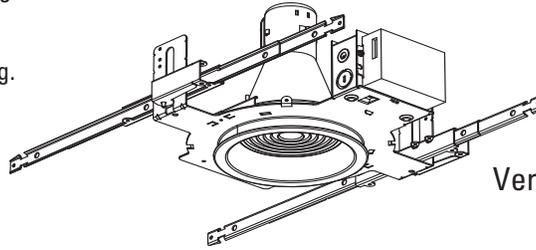
Catalog number

' F ' _____

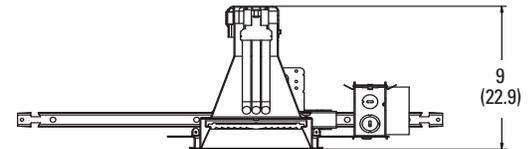
Compact Fluorescent Downlights

6" LGFV

Round Lens
Wet Location
Vertical Triple-Tube Lamp



Aperture: 6-1/4 (15.9)
 Ceiling Opening: 7-1/8 (17.8)
 Overlap Trim: 7-1/2 (19.1)
 All dimensions are inches (centimeters).



ORDERING INFORMATION

Example: **LGFV 26TRT 6RW T73 MVOLT**

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line. Order accessories as separate catalog numbers (shipped separately).

LGFV

Series	Wattage/Lamp	Door Frame	Shielding	Voltage	Ballast ³	Options
LGFV	18TRT¹	6RW Regressed white door	T73 Tempered prismatic lens	MVOLT²	(blank) Electronic ballast standard	CP Chicago Plenum TRDA Tamper-Resistant Door Assembly LRC⁶ Provides compatibility with Lithonia Reloc [®] System. Lithonia Reloc System can be installed less this option with connectors provided by others. Access above ceiling required GMF Single slow-blow fuse (not available with MVOLT) GLR Single fast-blow fuse (not available with MVOLT) WLP 3500 ^o K Lamp (shipped separately) RIF Radio Interference Filter ELR⁷ Emergency battery pack. Remote test switch provided GSKT Foam gasketing, ships uninstalled NSD⁸ Sensorswitch nLight [™] dimming relay
	26TRT¹					
	32TRT	6SB Stepped black baffle	FFL Flat Fresnel lens	277	ECOS EcoSystem electronic dimming ballast. Minimum dimming level 5%.	
	42TRT					
				S5⁵ Simply5 system ballast		

NOTES

- 1 Will also operate DTT 4-PIN lamps of same wattage.
- 2 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60 Hz.
- 3 For additional ballast types, refer to Technical Bulletins tab.
- 4 120 or 277V only.
- 5 SIMPLY5[™] includes 9' S5 MLC Reloc wiring system (shipped separately). Available in 120 or 277V only. Not available in 18W. See Simply5.net for more information.
- 6 For compatible Reloc systems, refer to Technical Bulletins tab.
- 7 Not available with ELR option.
- 8 For dimensional changes refer to Technical Bulletins tab.
- 8 One 5A relay with one 0-10 VDC dimming output, shipped installed. Requires additional nLight bus power supply.

Accessories

Order as separate catalog number.
SCA6 Sloped ceiling adapter. Degree of slope must be specified (10D, 15D, 20D, 25D, 30D). Ex: SCA6 **10D**.

6" LGFV Round Lens

Distribution curve

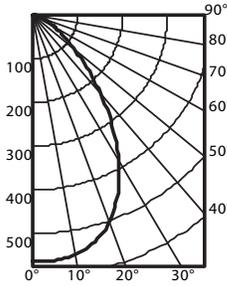
Distribution data

Output data

Coefficient of utilization

Illuminance Data at 30" Above Floor for a Single Luminaire

LGFV 32TRT 6RW T73, 32TRT lamp, 1.1 s/mh, 2400 rated lumens, Test no. LTL14208

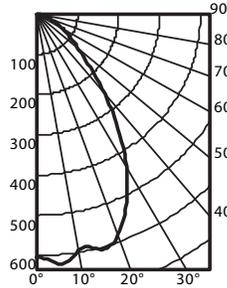


From 0°	Ave	Lumens	Zone	Lumens	% Lamp
0	563		0° - 30°	408.5	17.0
5	563	53	0° - 40°	600.8	25.0
15	536	150	0° - 60°	810.1	33.8
25	449	205	0° - 90°	873.8	36.4
35	309	192	90° - 180°	0.0	0.0
45	171	133	0° - 180°	873.8	*36.4
55	83	76			
65	41	42			*E efficiency
75	16	18			
85	4	4			
90	0				

pf	20%					
	80%		70%		50%	
pc	50%	30%	50%	30%	50%	30%
1	.39	.38	.39	.37	.37	.36
2	.36	.34	.35	.33	.34	.32
3	.32	.30	.32	.30	.31	.29
4	.29	.27	.29	.27	.28	.26
5	.27	.24	.26	.24	.26	.24
6	.25	.22	.24	.22	.24	.21
7	.23	.20	.23	.20	.22	.20
8	.21	.18	.21	.18	.20	.18
9	.20	.17	.19	.17	.19	.17
10	.18	.16	.18	.16	.18	.16

Mount height	Initial fc		50% beam angle		10% beam angle	
	at beam center	Beam diameter	fc at beam edge	Beam diameter	fc at beam edge	Beam diameter
8	18.6	5.9	9.3	11.2	1.9	1.9
10	10.0	8.0	5.0	15.3	1.0	1.0
12	6.2	10.1	3.1	19.4	0.6	0.6
14	4.3	12.3	2.1	23.5	0.4	0.4
16	3.1	14.4	1.5	27.6	0.3	0.3

LGFV 32TRT 6RW FFL, 32TRT lamp, 1.1 s/mh, 2400 rated lumens, Test no. LTL14209



From 0°	Ave	Lumens	Zone	Lumens	% Lamp
0	604		0° - 30°	463.7	19.3
5	624	58	0° - 40°	679.7	28.3
15	605	169	0° - 60°	914.0	38.1
25	517	236	0° - 90°	995.1	41.5
35	348	216	90° - 180°	0.0	0.0
45	184	144	0° - 180°	995.1	*41.5
55	99	90			
65	54	54			*E efficiency
75	21	22			
85	4	5			
90	0				

pf	20%					
	80%		70%		50%	
pc	50%	30%	50%	30%	50%	30%
1	.45	.43	.44	.43	.42	.41
2	.40	.38	.40	.38	.38	.37
3	.37	.34	.36	.33	.35	.33
4	.33	.30	.33	.30	.32	.29
5	.30	.27	.30	.27	.29	.27
6	.28	.25	.28	.25	.27	.24
7	.26	.23	.25	.23	.25	.22
8	.24	.21	.24	.21	.23	.20
9	.22	.19	.22	.19	.22	.19
10	.21	.18	.21	.18	.20	.18

Mount height	Initial fc		50% beam angle		10% beam angle	
	at beam center	Beam diameter	fc at beam edge	Beam diameter	fc at beam edge	Beam diameter
8	20.0	6.1	10.0	11.3	2.0	2.0
10	10.7	8.3	5.4	15.3	1.1	1.1
12	6.7	10.6	3.3	19.4	0.7	0.7
14	4.6	12.8	2.3	23.5	0.5	0.5
16	3.3	15.0	1.7	27.6	0.3	0.3

NOTES:

- For electrical characteristics consult Technical Bulletins tab.
- Tested to current IES and NEMA standards under stabilized laboratory conditions. Various operating factors can cause differences between laboratory data and actual field measurements. Dimensions and specifications are based on the most current available data and are subject to change without notice.

DCF-530

©2005, 2010, 2011 Acuity Brands Lighting, Inc.
All Rights Reserved.

gotham
An Acuity Brands Company

GOTHAM ARCHITECTURAL DOWNLIGHTING
1400 Lester Road Conyers Georgia 30012
P 800 315 4982 F 770 860 3129
www.gothamlighting.com

1	2	3	4	5	6			7	8
LUMINAIRE	HOOD	OPTICS	LAMP/BALLAST	DECORATIVE SCREEN	OPTIONS			COLOR	MOUNTING
					GENERAL	HOOD	SCREEN		
PKWM									



PAKWAY SQUARE
MEDIUM SCALE HOUSING



PKWM

DESIGNER
SSL SERIES
FEATURING
MICROEMITTER™
TECHNOLOGY



PARKWAY SQUARE FAMILY OF FIXTURES



PKWM



PKWS



PKWB



PKSA/PKSP

Features

- Four optical systems, including LED, horizontal, vertical, and indirect
- Features highly efficient, exclusive MicroEmitter™ technology
- Available with exclusive wiHUBB® technology
 - Wireless control system for 0-10VDC full range dimming control
 - Programmable autonomous operation
- Three hood styles to configure a look in harmony with your architecture
- Six decorative screen options
- Wide variety of custom arm options.
- Tool-less access
- EISA compliant
- IP65 rated for horizontal configurations and IP66 rated for vertical configurations
- Powder coat finish in 13 standard colors with a polymer primer sealer

JOB INFORMATION

TYPE

JOB NAME

LAMP (BY OTHERS)

CUSTOMER

DATE

*Consult factory for any custom/
modified products*

APPROVALS

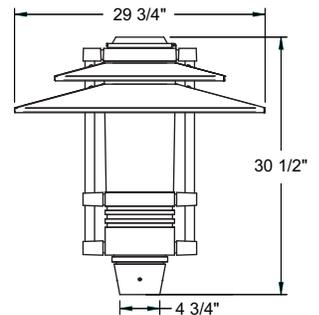


1	2	3	4	5	6			7	8
					OPTIONS				
LUMINAIRE	HOOD	OPTICS	LAMP/BALLAST	DECORATIVE SCREEN	GENERAL	HOOD	SCREEN		
PKWM									

1. LUMINAIRE

- PKWM Parkway Square Pedestrian (Medium) scale.
Slips over a 4" open top square pole or 2 3/8" tenon.

<input type="checkbox"/> ANG Angled Hood  Horizontal Optics HT: 30.5"/775 mm DIA: 23"/584 mm EPA: 3.18 WT: 57 lbs.	<input type="checkbox"/> IND Indirect Hood (Underside finished in high reflectance white)  Vertical Optics HT: 30.5"/775 mm DIA: 23"/584 mm EPA: 3.22 WT: 49 lbs.	<input type="checkbox"/> STR Straight Hood  Vertical Optics HT: 30.5"/775 mm DIA: 29.75"/756 mm EPA: 3.21 WT: 63 lbs.	<input type="checkbox"/> DBL Double Hood  Vertical Optics HT: 30.5"/775 mm DIA: 29.75"/756 mm EPA: 3.28 WT: 79 lbs.
---	---	--	---



3. OPTICS

HORIZONTAL LED OPTICAL SYSTEM – Available with ANG hood and LEDs only. Flat glass lens.

- T2 Horizontal LED optical system. IES Type 2 distribution.
- T3 Horizontal LED optical system. IES Type 3 distribution.
- T4 Horizontal LED optical system. IES Type 4 distribution.
- T5 Horizontal LED optical system. IES Type 5 distribution.

VERTICAL LED OPTICAL SYSTEM

- VL3 Asymmetric distribution
- VL5 Symmetric distribution

HORIZONTAL OPTICAL SYSTEM – Available with ANG hood only. Not available with LEDs. Flat glass lens.

- H2 Horizontal optical system. IES Type 2 distribution.
- H3 Horizontal optical system. IES Type 3 distribution.
- H4 Horizontal optical system. IES Type 4 distribution.
- H5 Horizontal optical system. IES Type 5 distribution.

VERTICAL OPTICAL SYSTEM – Not available with IND or LEDs. Clear acrylic cylinder.

- GLA Vertical optical system. Frosted glass diffuser.
- GR3 Vertical optical system. IES Type 3 glass refractor.
- GR5 Vertical optical system. IES Type 5 glass refractor.

INDIRECT OPTICAL SYSTEM – Available with IND hood only. Not available with LEDs. Clear acrylic cylinder. Underside of hood is painted in high reflectance white.

- 3 Indirect reflector. IES Type 3 distribution.
- 5 Indirect reflector. IES Type 5 distribution.

BARE LAMP – Available with IL system only. Lightly diffused acrylic cylinder.

- BLO Bare lamp system, only for induction lamp system.

JOB INFORMATION TYPE <hr/> JOB NAME <hr/> LAMP (BY OTHERS) <hr/> CUSTOMER <hr/> DATE <hr/> Consult factory for any custom/modified products
APPROVALS

1	2	3	4	5	6			7	8
LUMINAIRE	HOOD	OPTICS	LAMP/BALLAST	DECORATIVE SCREEN	OPTIONS			COLOR	MOUNTING
					GENERAL	HOOD	SCREEN		
PKWM									

4. LAMP/BALLAST

- 55LED-BW 42 light emitting diode array. Bright white (5100K). Class 2, 120 thru 277 volt. *VL3 & VL5 only.*

- 60LED-WW MicroEmitter™ 60 light emitting diode array. Warm white (3500K). Class 1, 120 thru 277 volt. *Horizontal LED only.*

- 60LED-BW MicroEmitter™ 60 light emitting diode array. Bright white (5100K). Class 1, 120 thru 277 volt. *Horizontal LED only.*

- 70MH 70 watt metal halide 120/208/240/277 volt ballast. Use medium base, ED-17 lamp.

- 70MHEB 70 watt electronic metal halide 120 thru 277 volt ballast. Use medium base, ED-17 lamp.

- 70MHT6 70 watt metal halide 120/277/347 volt ballast. Use G12 base, T6 ceramic lamp.

- 70MHT6EB 70 watt electronic metal halide 120 thru 277 volt ballast. Use G12 base, T6 ceramic lamp.

- 100MH 100 watt metal halide 120/208/240/277 volt ballast. Use medium base, ED-17 lamp.

- 100MHEB 100 watt electronic metal halide 120 thru 277 volt ballast. Use medium base, ED-17 lamp.

- 150PSMH Pulse start 150 watt metal halide 120/208/240/277 volt ballast. Use medium base, ED-17 lamp.

- 150PSMHT6 Pulse start 150 watt metal halide 120/277 volt ballast. Use G12 base, T6 ceramic lamp.

- 150MHEB 150 watt electronic metal halide 120 or 277 volt ballast. Use medium base, ED-17 lamp.

- 150MHT6EB 150 watt electronic metal halide 120 or 277 volt ballast. Use G12 base, T6 ceramic lamp.

- 70HPS 70 watt high pressure sodium 120/208/240/277 volt ballast. Use medium base, ED-17 lamp.

- 100HPS 100 watt high pressure sodium 120/208/240/277 volt ballast. Use medium base, ED-17 lamp.

- 150HPS 150 watt high pressure sodium 120/208/240/277 volt ballast. Use medium base, ED-17 lamp.

- IL85 85 watt induction lamp system. 120, 208, 240 or 277 volt. -25°C min. start temp. Available in bare lamp configuration (BLO) with LDL lens only.

- CF Compact fluorescent electronic 120 thru 277 volt ballast. Use GX24q base, 26, 32 or 42 watt lamp. Not available with horizontal or LED optics. -18° C min start temp. Specify wattage.

- 140CO 140 watt electronic CosmoPolis™ 120 or 208 thru 277 volt ballast. Use PGZ12 base, CosmoPolis™ lamp. Not available with horizontal or LED optics.

All fixtures prewired for 277 volts unless specified. Lamps not included (except IL and LED options). All applicable ballasts are EISA compliant. Mini MasterColor® is a registered trademark and CosmoPolis™ is a trademark of Philips Lighting®.

<p>JOB INFORMATION</p> <p>TYPE _____</p> <p>JOB NAME _____</p> <p>LAMP (BY OTHERS) _____</p> <p>CUSTOMER _____</p> <p>DATE _____</p> <p><i>Consult factory for any custom/modified products</i></p> <div style="border: 1px solid black; height: 100px; width: 100%; margin-top: 10px;"> <p style="text-align: center; padding: 5px;">APPROVALS</p> </div>



1	2	3	4	5	6			7	8
LUMINAIRE	HOOD	OPTICS	LAMP/BALLAST	DECORATIVE SCREEN	OPTIONS			COLOR	MOUNTING
					GENERAL	HOOD	SCREEN		
PKWM									

5. DECORATIVE SCREENS (OPTIONAL)

Painted to match fixture. Also available in stainless steel or copper. Not available with horizontal or LED optics.



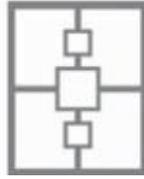
DSIN
Infinity design
painted to
match fixture.



DSOF
Offset design
painted to
match fixture.



DSWH
Wheat design
painted to
match fixture.



DSTR
Trio design
painted to
match fixture.



DSSH
Shutter design
painted to
match fixture.



DSCS
Custom design*
painted to
match fixture.

6. OPTIONS

GENERAL

- WIH-IM** In fixtures wireless control module. *For use with LED only.
- ULS** Upper lens shield above the hood. Reduces light above hood.
- TEN** 2 3/8" O.D. x 4" long tenon. Required for all poles, except for PS4. *GLA only.*
- TEN23** Tenon adaptor slips over a 2 3/8" O.D. x 4" long tenon. Required for poles by others or used in conjunction with the TEN pole option by AAL. *GLA only.*
- LDL** Lightly diffused lens
- 347** 120/240/347 volt ballast for HID only, except 50MH and 50HPS.

HOOD

- COP** Brushed copper hood
- STS** Stainless steel hood

DECORATIVE SCREEN

- CPR** Screen in brushed copper
- SSP** Screen in brushed stainless steel

7. COLOR

- | | |
|--|---|
| <input type="checkbox"/> AWT Arctic White | <input type="checkbox"/> MDG Medium Grey |
| <input type="checkbox"/> BLK Black | <input type="checkbox"/> ATG Antique Green |
| <input type="checkbox"/> MTB Matte Black | <input type="checkbox"/> LGY Light Grey |
| <input type="checkbox"/> DGN Dark Green | <input type="checkbox"/> SPP Salt and Pepper (premium) |
| <input type="checkbox"/> DBZ Dark Bronze | <input type="checkbox"/> SFM Seafoam (premium) |
| <input type="checkbox"/> WRZ Weathered Bronze | <input type="checkbox"/> WCP Weathered Copper (premium) |
| <input type="checkbox"/> BRM Metallic Bronze | <input type="checkbox"/> SHK Shamrock (premium) |
| <input type="checkbox"/> VBL Verde Blue | <input type="checkbox"/> RAL COLOR Provide a RAL 4 digit color number |
| <input type="checkbox"/> CRT Corten | <input type="checkbox"/> CUSTOM COLOR Please provide a color chip for matching |
| <input type="checkbox"/> MAL Matte Aluminum | |

JOB INFORMATION

TYPE

JOB NAME

LAMP (BY OTHERS)

CUSTOMER

DATE

*Consult factory for any custom/
modified products*

APPROVALS

9100 SERIES HID 150 WATT MAX. IN-GRADE LUMINAIRE

DESCRIPTION:

The 9100 Series HID flush mounted Up-lights are designed for flush mounting in planting areas or in concrete, and are used for illuminating building facades, walls, trees, and similar applications. The lamp module and power modules are factory sealed, thermally protected, and connected by submersible rated connectors.

SPECIFICATIONS:

DOOR MATERIAL: Cast aluminum or bronze that locks the lamp housing into the Rough-In Section with a single tamperproof stainless steel fastener.

ROUGH-IN SECTION: Injection molded ABS, U.V. stabilized, impact and corrosion resistant for use in all types of environments.

LAMP MODULE HOUSING: Stainless steel, sealed and purged of all moisture to 100°F (38°C). Electrical access to lamp module is done through submersible rated connector. **THERMALLY PROTECTED.**

LAMP TYPE: See ordering guide. **LAMP INCLUDED.**

VOLTAGE: See ordering guide.

DISTRIBUTIONS: The Spot Reflector is specular spun aluminum. The Wide Flood Reflector is diffuse spun aluminum and the Wall Wash Reflector is diffuse hydroformed aluminum. The Spot and Flood Reflector assemblies have 15° of internal lamp tilt on a 360° axis of rotation. Lamp tilt is not used in the Wall Wash units. The lenses are clear tempered flat glass. Convex lenses are available.

THE COMMON LIGHT DISTRIBUTIONS ARE:

SPOT = 7° spread; **WFL** = 140° spread;

NFL = 30° spread; **MFL** = 60° spread;

WW = 10 to 1 Uniformity Ratio

Reflectorized lamp distributions vary depending on manufacturer. Check Photometric Sheets.

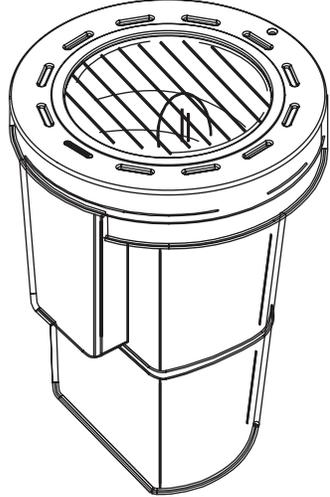
POWER MODULE: Sealed unit encapsulated in an engineered composite resin to eliminate all water entry.

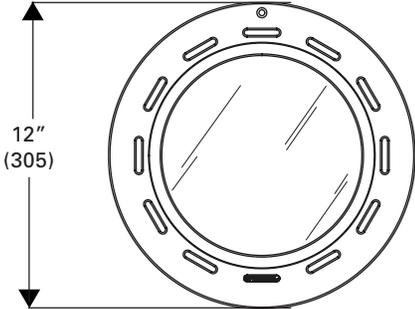
CONDUIT ENTRIES: 3/4" NPT are available in the cast aluminum integral Junction Box. Suitable for thru-branch wiring. This box has 24 cubic inches of volume.

LISTING: U.L., CSA, NEMKO

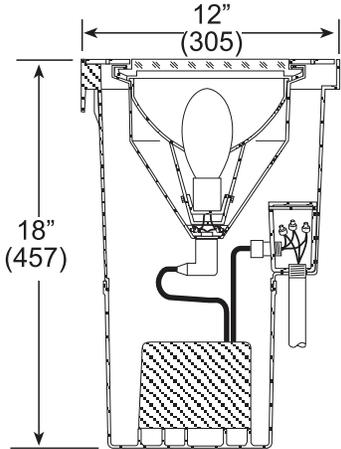
NOTE: HYDREL RESERVES THE RIGHT TO MODIFY SPECIFICATION WITHOUT NOTICE. Any dimension on this sheet is to be assumed as a reference dimension: "Used for information purposes only. It does not govern manufacturing or inspection requirements." (ANSI Y14.5-1973)

TYPE ' J '		JOB NAME			
PART NUMBER					
Model	Material	Lamp Type	Voltage	Distribution	Lens
Conduit	Accessories	Options	Lamp	Listing	





12"
(305)



12"
(305)

18"
(457)

APPROVALS

9100 ORDERING INFORMATION

60 Hz Application

Choose the boldface catalog nomenclature that best suits your needs. *Designates required selection.

PART NO.

EXAMPLE:

9100	A	150CMT6	MVOLT	MFL	FLC	34B	GEB	LP		
*Model		*Voltage		*Lens		*Options				
<input type="checkbox"/> 9100 Round		<input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 220 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> MVOLT⁴		<input type="checkbox"/> FLC Flat Lens Clear <input type="checkbox"/> FLC5 Flat Lens 5° Axial Spread <input type="checkbox"/> FLC10 Flat Lens 10° Tilt <input type="checkbox"/> FLF Flat Lens Frosted <input type="checkbox"/> FLCAS Flat Lens Clear Anti-Slip <input type="checkbox"/> FLC5AS Flat Lens 5° Axial Spread - Anti-Slip <input type="checkbox"/> CLC Convex Lens Clear		<input type="checkbox"/> GEB⁵ Electronic Ballast				
*Material						*Conduit				
<input type="checkbox"/> A Aluminum <input type="checkbox"/> B Bronze						<input type="checkbox"/> 34B 3/4" NPT Bottom				
*LampType		*Distribution				*Lamp				
MH <input type="checkbox"/> 35CMT6 T6, G-12 base <input type="checkbox"/> 70CMT6¹ T6, G-12 base <input type="checkbox"/> 150CMT6 T6, G-12 base <input type="checkbox"/> 50M⁸ E17, med. base <input type="checkbox"/> 70M⁷ E17, med. base <input type="checkbox"/> 70CM⁷ E17, med. base <input type="checkbox"/> 100M E17, med. base <input type="checkbox"/> 100CM E17, med. base <input type="checkbox"/> 150M E17, med. base <input type="checkbox"/> 150CM E17, med. base <input type="checkbox"/> 150M E17, med. base <input type="checkbox"/> P3870M⁷ PAR38, med. base <input type="checkbox"/> P3870CM⁷ PAR38, med. base <input type="checkbox"/> P38100M PAR38, med. base <input type="checkbox"/> P38100CM PAR38, med. base <input type="checkbox"/> P38150M PAR38, med. base <input type="checkbox"/> P38150CM PAR38, med. base HPS <input type="checkbox"/> 50S⁸ E17, med. base <input type="checkbox"/> 70S E17, med. base <input type="checkbox"/> 100S E17, med. base <input type="checkbox"/> 150S E17, med. base		<input type="checkbox"/> SP Spot <input type="checkbox"/> MFL¹ Medium Flood <input type="checkbox"/> NFL¹ Narrow Flood <input type="checkbox"/> WFL¹ Wide flood <input type="checkbox"/> WWD¹ Wall Wash Reflector, 5° spread lens <input type="checkbox"/> FL Flood (PAR lamps only)		<input type="checkbox"/> LP Lamp installed						
						Accessories				
						Internal <input type="checkbox"/> MSR Modular support ring <input type="checkbox"/> IHL Internal honeycomb louver <input type="checkbox"/> ISS¹⁶ Internal source shield <input type="checkbox"/> WWL¹ Wall Wash Louver External <input type="checkbox"/> GS² Glare Shield <input type="checkbox"/> RG²³ Rock Guard <input type="checkbox"/> PC21 35 cu. in. potting compound				
						Finish⁹				
						<input type="checkbox"/> BL Black <input type="checkbox"/> BZ Bronze <input type="checkbox"/> DDB Dark Bronze <input type="checkbox"/> DNA Natural Alum. <input type="checkbox"/> GN Green <input type="checkbox"/> GR Gray <input type="checkbox"/> SND Sand <input type="checkbox"/> STG Steel Gray <input type="checkbox"/> TVG Terra Verde Green <input type="checkbox"/> WH White <input type="checkbox"/> CF Custom Finish				

Notes:

- ¹ Not Available with PAR Lamps.
- ² RG and GS are mutually exclusive.
- ³ Not available with CLC Lens.
- ⁴ MVOLT only valid if GEB is Chosen.
- ⁵ GEB only available with MH lamps to 150 watts, MVOLT is the default voltage for GEB lamps.
- ⁶ Not available with WWD distribution.
- ⁷ Not available in 220 Volt.
- ⁸ Only available in 120 or 277 Volt.
- ⁹ Finish is only valid with "A" door material.

Consisting of:
 RIS Rough-In Section
 ACL Lamp Module
 HSL Ballast Module

9100 ORDERING INFORMATION

50 Hz Application

Choose the boldface catalog nomenclature that best suits your needs. *Designates required selection.

PART NO.

EXAMPLE:

9100	A	150CMT6	22050Hz	SP	FLC	16B	ISS	GEB	LP	IEC
*Model										
<input type="checkbox"/> 9100 Round			<input type="checkbox"/> 22050Hz <input type="checkbox"/> 23050Hz <input type="checkbox"/> 24050Hz <input type="checkbox"/> MVOLT ⁴			<input type="checkbox"/> 16B PG16 Bottom <input type="checkbox"/> 20B M20 Bottom			<input type="checkbox"/> LP Lamp Installed	
*Material										
<input type="checkbox"/> A Aluminum <input type="checkbox"/> B Bronze			*Distribution			Accessories			Finish⁷	
			<input type="checkbox"/> SP Spot <input type="checkbox"/> MFL Medium Flood <input type="checkbox"/> WFL Wide flood <input type="checkbox"/> NFL Narrow Flood <input type="checkbox"/> WWD Wall Wash Reflector, 5° spread lens			Internal <input type="checkbox"/> MSR Modular support ring <input type="checkbox"/> IHL Internal honeycomb louver <input type="checkbox"/> ISS ^{1,6} Internal source shield <input type="checkbox"/> WWL ¹ Wall Wash Louver External <input type="checkbox"/> GS ² Glare Shield <input type="checkbox"/> RG ^{2,3} Rock Guard <input type="checkbox"/> PC21 35 cu. in. potting compound			<input type="checkbox"/> BL Black <input type="checkbox"/> BZ Bronze <input type="checkbox"/> DDB Dark Bronze <input type="checkbox"/> DNA Natural Alum. <input type="checkbox"/> GN Green <input type="checkbox"/> GR Gray <input type="checkbox"/> SND Sand <input type="checkbox"/> STG Steel Gray <input type="checkbox"/> TVG Terra Verde Green <input type="checkbox"/> WH White <input type="checkbox"/> CF Custom Finish	
*LampType										
HID <input type="checkbox"/> 35CMT6 T6, G-12 base <input type="checkbox"/> 70CMT6 T6, G-12 base <input type="checkbox"/> 150CMT6 T6, G-12 base <input type="checkbox"/> 70M E27 base <input type="checkbox"/> 70CM E27 base <input type="checkbox"/> 100M E27 base <input type="checkbox"/> 100CM E27 base <input type="checkbox"/> 150M E27 base <input type="checkbox"/> 150CM E27 base			*Lens					Options		Listing
HPS <input type="checkbox"/> 50S E27 base <input type="checkbox"/> 70S E27 base <input type="checkbox"/> 100S E27 base			<input type="checkbox"/> FLC Flat Lens Clear <input type="checkbox"/> FLC5 Flat Lens 5° Axial Spread <input type="checkbox"/> FLC5AS Flat Lens 5° Axial Spread - Anti-Slip <input type="checkbox"/> FLC10 Flat Lens 10° Tilt <input type="checkbox"/> FLF Flat Lens Frosted <input type="checkbox"/> FLCAS Flat Lens Clear Anti-Slip <input type="checkbox"/> CLC Convex Lens Clear					<input type="checkbox"/> GEB ⁵ Electronic Ballast		<input type="checkbox"/> IEC

Notes:

- Not Available with PAR Lamps.
- RG and GS are mutually exclusive.
- Not available with CLC Lenses.
- MVOLT only valid if GEB is Chosen.
- GEB only available with MH lamps to 150 watts, MVOLT is the default voltage for GEB lamps.
- Not available with WWD distribution.
- Finish is only valid with "A" door material.

Consisting of:

RIS Rough-In Section
ACL Lamp Module
HSL Transformer Module/
Power Cord

4421 BASE OR YOKE MOUNT

LINE VOLTAGE FOUNTAIN FIXTURE

DESCRIPTION

The 4421 series is ideal for shallow pool installations. Designed for the 120V T-4 mini-can tungsten halogen (quartz) lamp, 500W Max. It is compact in size with an over all height of 8 3/8". The standard unit employs a medium-angle flood pattern reflector. The reflector is chrome plated spun copper.

FEATURES & SPECIFICATIONS

FIXTURE HOUSING & ROCK GUARD: Heavy wall cast bronze construction. Natural bronze finish.

LAMP: 500W Max., T-4 mini-can.

SOCKET: Mini-can base type with 200°C insulated leads.

DISTRIBUTION: Reflector is parabolic chrome plated spun copper.

LENS: 7 9/16" diameter convex clear tempered heat resistant glass.

MOUNTING: ALB custom base enables underwater lighting fixtures to be mounted 2" below the water level regardless of the depth of the fountain. This is achieved by securing the base in 3 places and cutting a length of 3/4" red brass pipe (threaded on one end) to the desired size. The locking mechanism allows you to remove the fixture for re-lamping without upsetting the fixture adjustment.

RISER: RSR6 if no length specified and ALB is chosen. 4"-24" Riser stem, available in 2" increments.

GASKET: Single-piece molded U-shaped silicone.

CORD: Minimum of 10' of #16-3ST submersible rated cord. Cord entrance is brass, water-tight seal and epoxy encapsulated. **Cord length must be specified.**

FACTORY LEAK TESTED: Fixtures are tested at 10 PSI (0.70kg/cm²) internal pressure while totally submerged in water.

LOW WATER CUT-OFF: Temperature sensing low water cut-off standard.

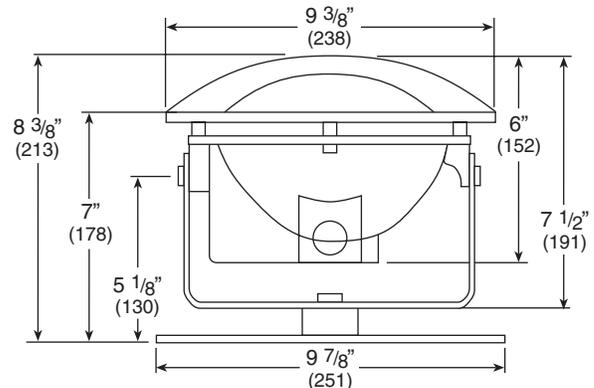
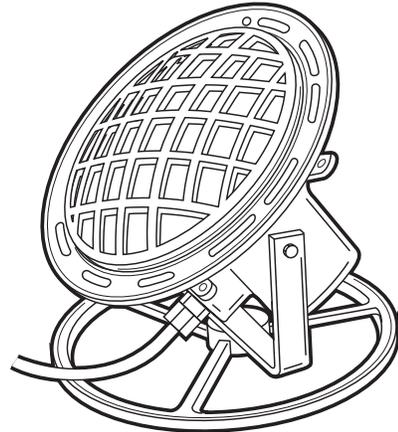
FASTENERS: Stainless steel.

LISTING: U.L., C.S.A.

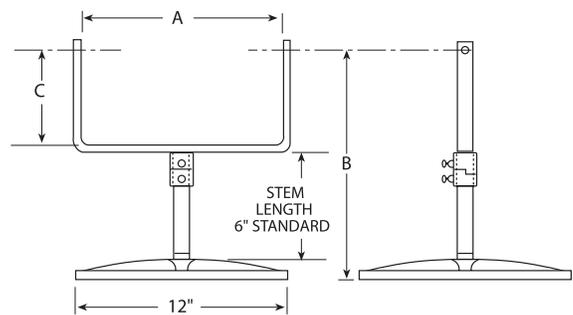
NOTE: HYDREL RESERVES THE RIGHT TO MODIFY SPECIFICATION WITHOUT NOTICE. Any dimension on this sheet is to be assumed as a reference dimension: "Used for information purposes only. It does not govern manufacturing or inspection requirements." (ANSI Y14.5-1973)

TYPE ' L '	JOB NAME
---------------	----------

PART NUMBER									
Model	Lamp Type	Voltage	Lens	Mounting	Mounting Access.	Cord	Lamp	Options	



ALB DIMENSIONS



A INSIDE WIDTH	B STANDARD HEIGHT	C YOKE CLEARANCE	B MIN. (CUT STEM)
7 7/8	11	3 7/8	7

APPROVALS

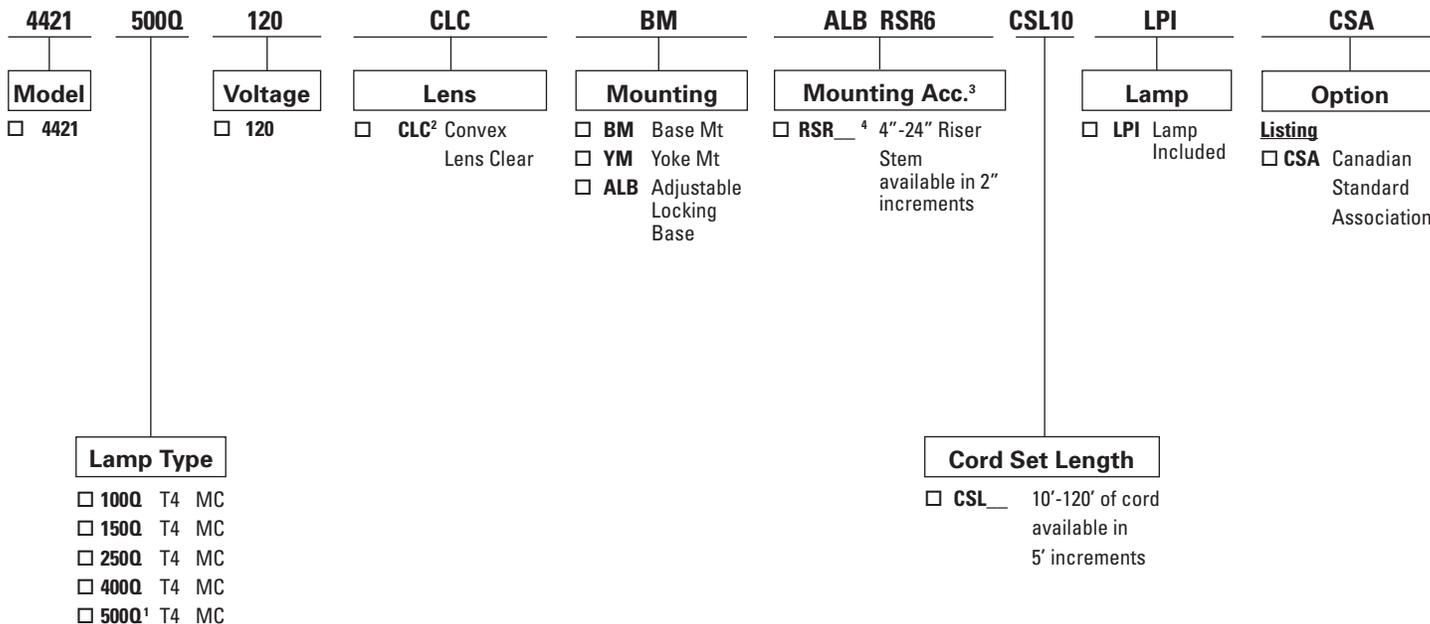
4421 ORDERING INFORMATION

60 Hz Application

Choose the boldface catalog nomenclature that best suits your needs.

PART NO.

EXAMPLE:



Notes:

- ¹ 500Q will be used if no lamp is chosen.
- ² CLC will be used if no lens is chosen.
- ³ Mounting Accessories are only available with BM.
- ⁴ RSR6 will be used if no riser length is specified and ALB is chosen.

October 2, 2013

M. Aimee Nassif
Planning and Development Services Director
City of Chesterfield
690 Chesterfield Pkwy W
Chesterfield, MO 63017



RE: St Louis Premium Outlets Phase II - Site Lighting Review

Dear Ms. Nassif,

We are writing this letter in response to the Chesterfield Blue Valley, Lot 2 (St. Louis Premium Outlets) - 2nd ASDSP review letter dated September 6, 2013.

Item 20:

We are requesting approval to use a partially shielded light fixture on new and existing light poles in the location of the new proposed parking area. We are forced to use the partially shielded light fixtures due to the restriction of not being able to install light pole bases within the seepage berm area. The partially shielded fixtures will be equipped with a glare shield to limit off-site glare trespass. The photometrics shown on drawing LC-1 shows that there is 0.1 foot candles at the property line near the new proposed parking area.

We are limited in the type of light fixture we can use in this area due to the existing light poles and restrictions on pole locations. The chosen fixture along with the mounting arms are from the same manufacturer as the existing light poles and are compatible with mounting on the current poles. The locations of the new and existing poles forces us to use a fixture that will project the light required to adequately light the new proposed parking area. While a more decorative light fixture would be desired, due to the nature of the type of fixture required, we are limited in the appearance of the fixtures available. Therefore a fixture with a more utilitarian appearance has been selected due to its performance characteristics.

The owner of the property is tasked with providing safe and secure parking areas for its customers. The partially shielded fixtures have been selected to provide safe light levels as recommended by the Illuminating Engineering Society of North America (IES). The IES is the standards writing organization for lighting and lighting design criteria in North America.

Item 21:

We are requesting approval to increase the minimum light level at the base of a light pole. The reason for this request is because we are proposing to use a partially shielded light fixture in order to provide safe light levels as recommended by IES in the new proposed parking area. See

additional information on the partially shielded light fixtures in item 20. The combination of the partially shielded light fixture and the shoebox type light fixtures on the same pole provides for higher light levels at the base of the light pole.

Item 22:

All accent lights required for submission shall be submitted for approval.

Respectfully,

A handwritten signature in black ink, appearing to read 'R. Timko', with a stylized, cursive script.

Ronald S. Timko, P.E., LEED AP
MDA ENGINEERING, INC.

Cc: File

ST. LOUIS PREMIUM OUTLETS: PHASE 2



PREMIUM
OUTLETS
SIMON

WOODMONT
OUTLETS



CITY OF CHESTERFIELD

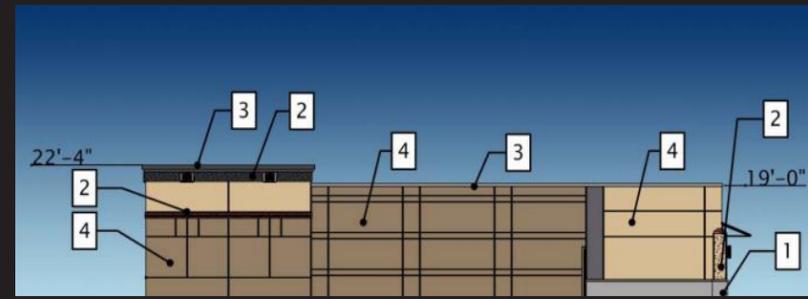
SEPTEMBER 12, 2013

ARCHITECTURAL REVIEW BOARD

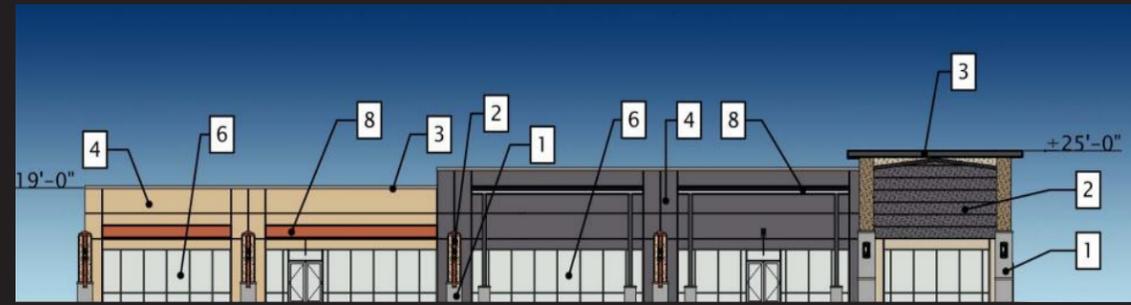
BUILDING 9 EXTERIOR ELEVATIONS



WEST ELEVATION
SCALE 1/32" = 1'-0"



SOUTH ELEVATION
FACING BUILDING 5
SCALE 1/32" = 1'-0"



EAST ELEVATION
SCALE 1/32" = 1'-0"



NORTH ELEVATION
SCALE 1/32" = 1'-0"

- MATERIALS ▪
- 1 ▪ brick and stone veneer
- 2 ▪ exterior insulation plaster system
- 3 ▪ architectural metal
- 4 ▪ painted masonry wall with texture finish
- 5 ▪ metal trellis
- 6 ▪ vision glass in aluminum storefronts and curtain walls
- 7 ▪ backlit decorative glass
- 8 ▪ canvas and metal awnings
- 9 ▪ standing seam metal roof



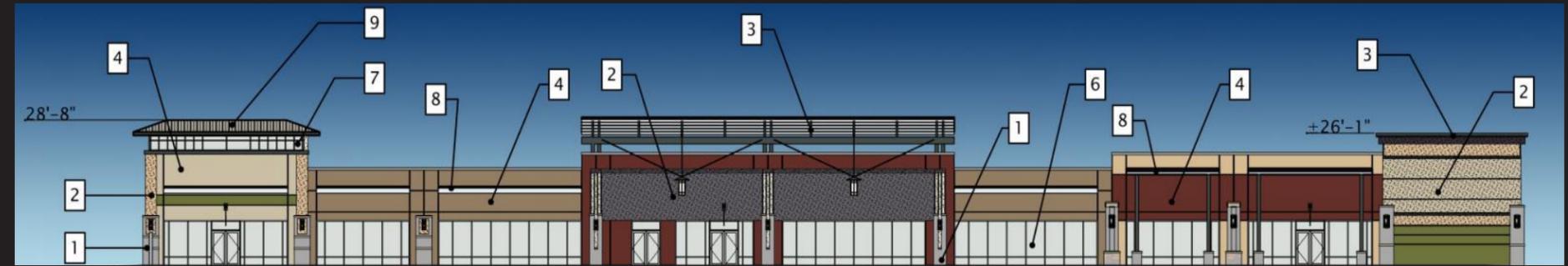
BUILDING 10 EXTERIOR ELEVATIONS



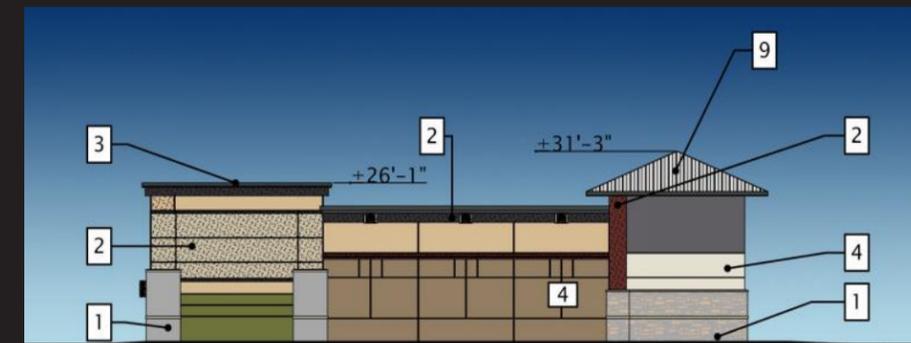
NORTH ELEVATION
 FACING LEVY
 SCALE 1/32" = 1'-0"



WEST ELEVATION
 SCALE 1/32" = 1'-0"



SOUTH ELEVATION
 SCALE 1/32" = 1'-0"

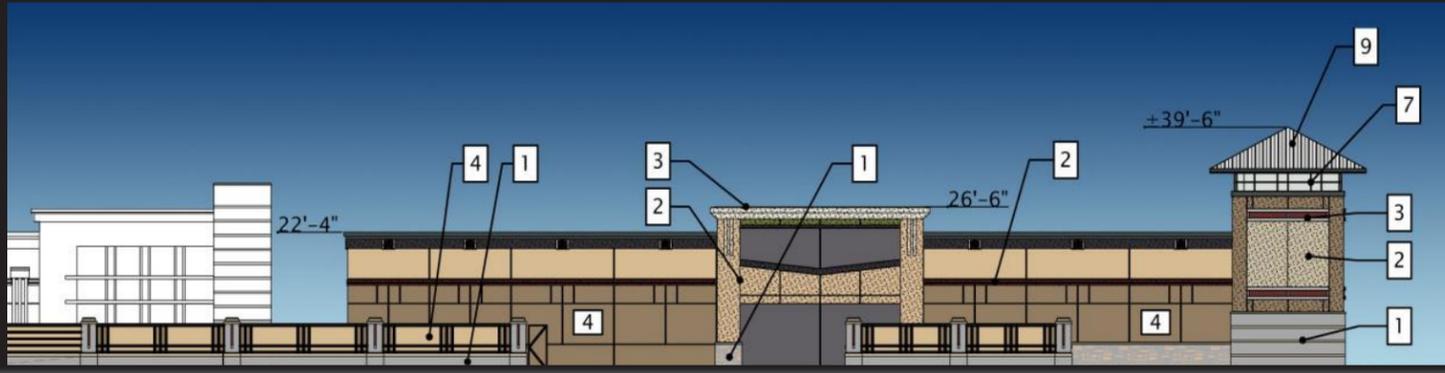


EAST ELEVATION
 SCALE 1/32" = 1'-0"

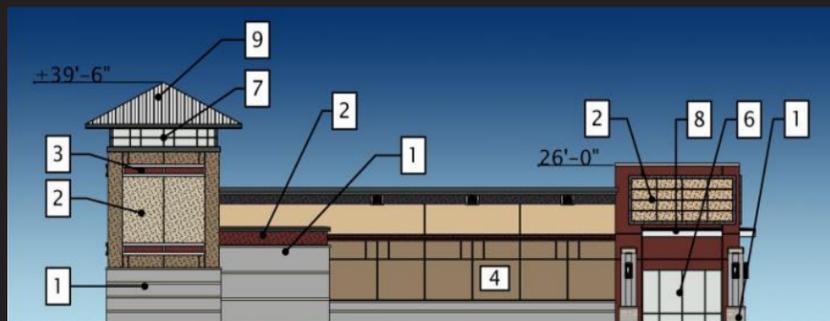
- **MATERIALS** ▪
- 1 ▪ brick and stone veneer
 - 2 ▪ exterior insulation plaster system
 - 3 ▪ architectural metal
 - 4 ▪ painted masonry wall with texture finish
 - 5 ▪ metal trellis
 - 6 ▪ vision glass in aluminum storefronts and curtain walls
 - 7 ▪ backlit decorative glass
 - 8 ▪ canvas and metal awnings
 - 9 ▪ standing seam metal roof



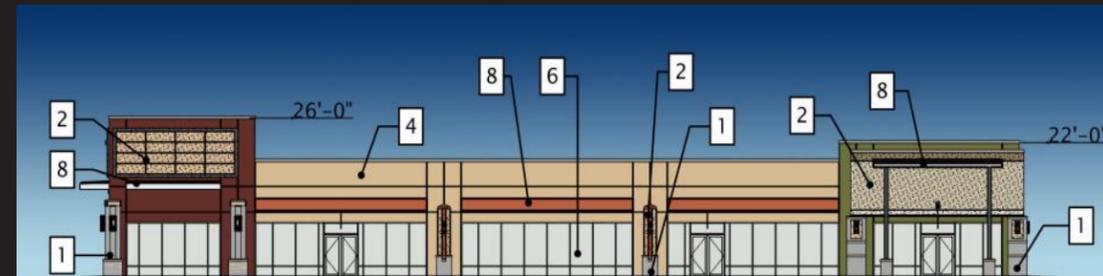
BUILDING 11 EXTERIOR ELEVATIONS



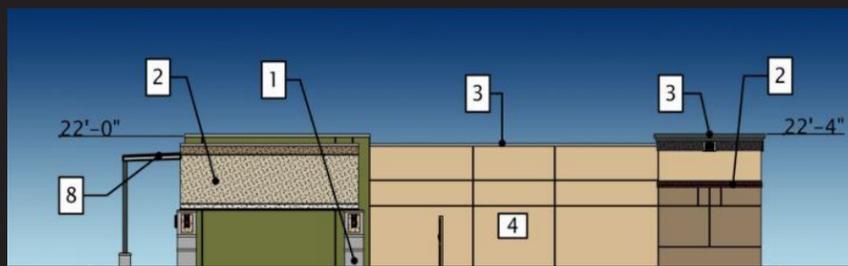
EAST ELEVATION
SCALE 1/32" = 1'-0"



NORTH ELEVATION
SCALE 1/32" = 1'-0"



WEST ELEVATION
SCALE 1/32" = 1'-0"

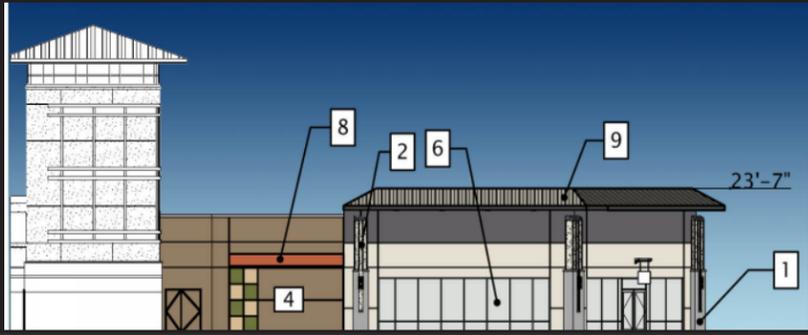


SOUTH ELEVATION
FACING BUILDING 1
SCALE 1/32" = 1'-0"

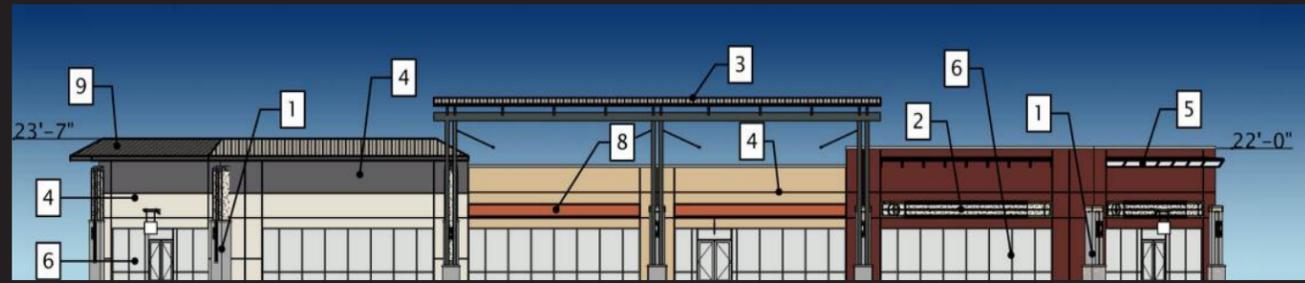
- MATERIALS ▪
- 1 ▪ brick and stone veneer
- 2 ▪ exterior insulation plaster system
- 3 ▪ architectural metal
- 4 ▪ painted masonry wall with texture finish
- 5 ▪ metal trellis
- 6 ▪ vision glass in aluminum storefronts and curtain walls
- 7 ▪ backlit decorative glass
- 8 ▪ canvas and metal awnings
- 9 ▪ standing seam metal roof



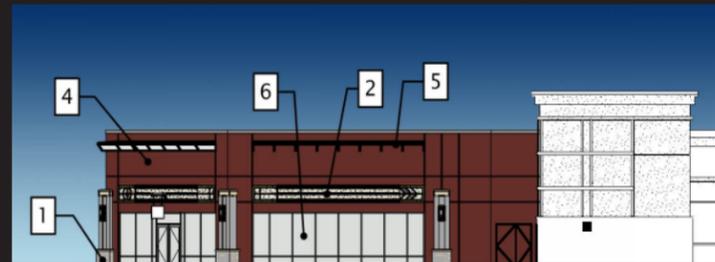
BUILDING 12 EXTERIOR ELEVATIONS



EAST ELEVATION
SCALE 1/32" = 1'-0"



NORTH ELEVATION
SCALE 1/32" = 1'-0"



WEST ELEVATION
SCALE 1/32" = 1'-0"

- MATERIALS ▪
- 1 ▪ brick and stone veneer
- 2 ▪ exterior insulation plaster system
- 3 ▪ architectural metal
- 4 ▪ painted masonry wall with texture finish
- 5 ▪ metal trellis
- 6 ▪ vision glass in aluminum storefronts and curtain walls
- 7 ▪ backlit decorative glass
- 8 ▪ canvas and metal awnings
- 9 ▪ standing seam metal roof



NORTHEAST ENTRY



ST. LOUIS PREMIUM OUTLETS
ARCHITECTURAL REVIEW BOARD

PREMIUM
OUTLETS
SIMON



WOODMONT
OUTLETS



THE COLLABORATIVE
architecture | landscape architecture | interior design | planning | graphic design

NORTHWEST ENTRY



ST. LOUIS PREMIUM OUTLETS
ARCHITECTURAL REVIEW BOARD

PREMIUM
OUTLETS
SIMON



WOODMONT
OUTLETS



THE COLLABORATIVE
architecture | landscape architecture | interior design | planning | graphic design

NORTHWEST PROMENADE



ST. LOUIS PREMIUM OUTLETS
ARCHITECTURAL REVIEW BOARD

PREMIUM
OUTLETS
SIMON



WOODMONT
OUTLETS



THE COLLABORATIVE
architecture | landscape architecture | interior design | planning | graphic design





NORTHEAST PROMENADE



ST. LOUIS PREMIUM OUTLETS
ARCHITECTURAL REVIEW BOARD

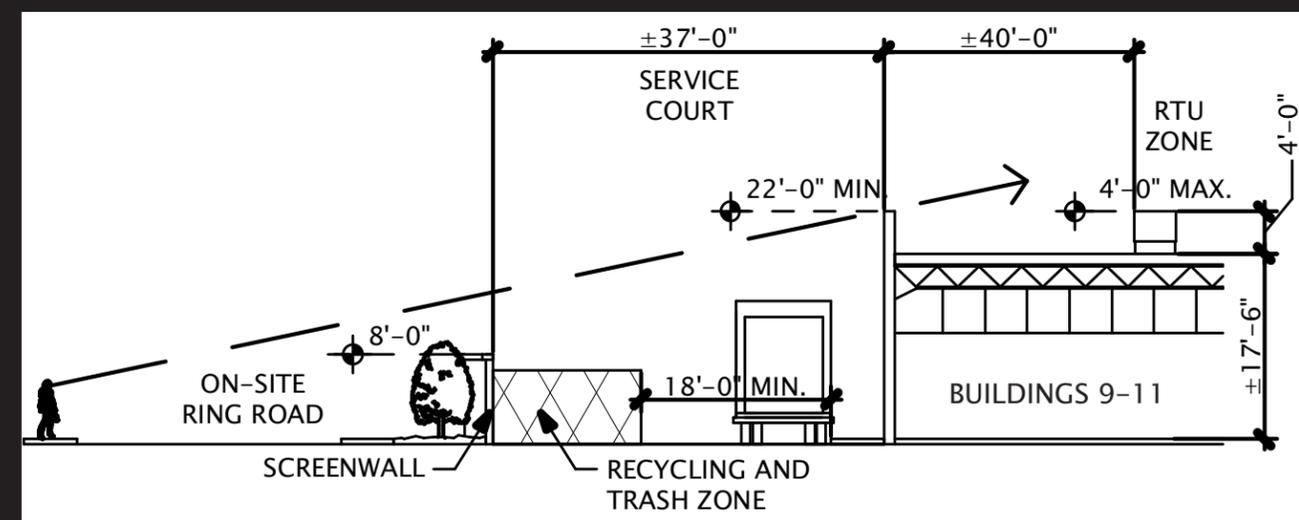
PREMIUM
OUTLETS
SIMON



WOODMONT
OUTLETS



THE COLLABORATIVE
architecture | landscape architecture | interior design | planning | graphic design



AT SERVICE COURT

SECTION

Phase 2

The addition to St. Louis Premium Outlets consists of 4 new buildings extending from the northern end of the original design. Phase 2 will be a seamless transition of the design principles successfully utilized in Phase 1.

Project vision, design concept, site circulation, building type and orientation, architectural expression, building articulation, lighting, internal roads, street furniture and landscape guidelines remain the primary principles for Phase 2.

Phase 1

Vision

St. Louis Premium Outlets is a new shopping concept proposed on the western edge of the City of Chesterfield. Located at the primary gateway to Chesterfield along Interstate 64/Highway 40, the St. Louis Premium Outlets will become a destination, attracting shoppers from both the close-by communities and the surrounding region.

The upscale retail centre has been designed to create a pedestrian-oriented, innovative shopping experience. The outdoor mall features a collection of attractive retail stores aligned along pedestrian-only walkways (Promenade Spaces). Access to the Promenade Spaces is provided from six well-defined, visually appealing entry plazas.

The Gallery Spaces are arranged in an easy-to-navigate rectilinear pattern. Attractive courtyards with seating and landscaping occur where the Promenade Spaces intersect.

Portions of the Promenade Spaces will be covered with a steel framed roof that adds to the pedestrian experience. The Promenade Spaces will be landscaped with attractive lighting, benches, trees and shrubs so that pedestrians feel safe, comfortable and are encouraged to shop and stay longer.

A high degree of architectural quality will be the standard for all retail buildings, with articulated entries, roof lines, fenestration, facade treatment and details.

The St. Louis Premium Outlets has been designed as a Contemporary Prairie Style. Which is a style marked by horizontal lines, flat or hipped roofs with broad overhanging eaves, windows grouped in horizontal bands, solid construction, craftsmanship, and discipline in the use of ornament. Horizontal lines were thought to evoke and relate to the prairie landscape. To highlight the style, a high degree of landscape detail is proposed to complement the well-articulated architectural facades.

Design Concept

- create a community-oriented, upscale retail centre that becomes a principal destination for the region and surrounding area

- create an innovative, dynamic built form that will be an asset to the community
- create a pedestrian-only, central retail plaza with parking that surrounds it for easy access
- create a comfortable pedestrian environment with courtyards and promenades that promote shopping, walking, strolling, sitting and socializing
- create an urban form that promotes user enjoyment and retail success
- protect and enhance the environmental features of the site
- ensure that a coordinated, upscale design theme is present in every architectural and landscape feature including built form, lighting, street furniture, and landscaping
- promote the site as a Gateway by creating a built form that is visually attractive from the major viewpoints in the surrounding community, particularly from Interstate 64/Highway 40
- create attractive landscape edges along Interstate 64/Highway 40 and proposed Outlet Blvd.

Site Circulation

Interstate 64/Highway 40 access to the St. Louis Premium Outlets retail site will be from two primary points:

- exit 14 eastbound onto Chesterfield Airport Road
- exit 14 westbound onto North Outer 40 to Spirit of St. Louis Blvd then to Chesterfield Airport Road

Within the site, drive aisles will lead to a ring road that completely surrounds the central plaza. All drive aisles will be defined by raised curbs with adjacent walkways or landscaping. Pedestrian movement will be accommodated by a series of tree-lined walkways that extend throughout the site and connect with the central plaza.

The central plaza contains all of the retail buildings and is designed for pedestrian-only access. Six entry points are provided along the perimeter of the central plaza, connected to the ring road. There will be a walkway that completely encircles the central plaza, leading shoppers to the pedestrian-only entry plazas.

The pedestrian-only entry plazas will be clearly defined by detailed landscaping that leaves a strong visual impression. The feature paving in the central plaza will extend out onto the road at the pedestrian entries to highlight the entrance and welcome pedestrians into the shopping centre. Highly articulated landscaping accompanied by enhanced building facades will define the entrance and distinguish it from the loading areas.

Building Type and Orientation

A distinct building type is proposed to create a user-friendly, innovative shopping experience at the St. Louis Premium Outlets site.

Central plaza multi-tenant buildings are clustered together at the centre of the site, creating an outdoor, pedestrian-oriented, retail hub.

To enhance the visual experience of the site, important building features will be located along view corridors and entry points.

Architectural Expression

All buildings in the St. Louis Premium Outlets shopping complex will be constructed using the same palette of building materials, complementary colors, and textures so that the entire development appears as a unified whole. Other design principles include:

The project design will be based on the general character, principles and theme of the Prairie Style of Architecture, which contains horizontal lines, flat or hipped roofs with broad overhanging eaves, windows grouped in horizontal bands as the principal means of architectural expression.

The material palette will consist of:

- brick and stone veneer
- exterior insulation plaster system (EIFS)
- smooth face architectural metal
- exposed steel structure
- painted concrete wall panels with sand texture finish
- open metal trellises
- glass and aluminum storefronts and curtain walls
- canvas and metal awnings and cornices

The color palette will be mainly earth tones accompanied by complimentary accent colors located at the view corridors and arrival points. All street furniture and lighting shall be complimentary with the architectural style of the buildings.

Building Articulation

Attractive facade treatment will be integrated into all sides of the buildings. The most visually prominent facades will be designed with feature elements and articulation. Feature building elements will consist of:

- Primary tower features
- Secondary tower features
- Enhanced facade treatments
- Enhanced pedestrian entry portals

Primary and secondary tower features are located at the principal access points along the main pedestrian corridors in the central plaza. They will consist of varying materials and have an identified base, middle and top. The same degree of detailing for the tower will extend down to provide visual interest at the pedestrian level.

The primary west entry court along the proposed Outlet Blvd. will incorporate an overhead gateway feature. This will act to highlight the primary entry to the centre and terminate the view corridor from the main entry boulevard

Enhanced facade treatments will consist of varying planes and roof (parapet) heights, and greater articulation and interest at the pedestrian level. These areas will be located at the entry plazas, at building corners, and at central locations along the service courts.

The central plaza has been designed as an upscale, pedestrian-only shopping complex that will provide an innovative shopping experience.

Although the exterior of the central plaza will have articulated facades and roof lines, pedestrian access to the retail shops is only available from the interior. Shoppers must enter through one of the six designated entry points in order to access each store.

Within the central plaza, a hierarchy of pedestrian courtyards and promenades define the spaces between the retail buildings. These spaces will orient the shopper, create a strong identity of space, develop visually interesting hardscape and landscape treatments, and connect the entire centre together.

The main central court is laid out in an east-west direction and will be the principal area for outdoor seating and events. The promenades will be partially covered by varying types of awnings, canopies and roof structure that are light in color, structurally interesting, and will allow for natural light and air to flow into the spaces. The covered spaces will protect shoppers from inclement weather throughout the year.

Service courts will be located on the perimeter of the central plaza, strategically placed outside of the main view corridors.

Service court areas will be screened by a decorative wall, constructed using materials and articulation consistent with the building design. Each wall will be approximately 8 feet in height so that service vehicles are screened from view. A landscape strip containing a walkway and planting will enhance the visual appearance of the wall, and will assist with pedestrian movement to the designated entry points.

The upper portion of the buildings in the central plaza that are visible above the decorative wall will be highly articulated with variations in roof line, and material and color changes.

Lighting

The lighting scheme at the St. Louis Premium Outlets site will complement the architectural style of the buildings and also be coordinated with the style of the street furniture, creating a consistent theme and look

throughout. The types of lighting anticipated is as follows:

- Parking Field Illumination - High mast poles with fixtures that do not transmit light beyond the extent of the site will be distributed throughout the parking fields. The pole color will be consistent with the other fixtures in the lighting scheme.
- Walkway Illumination - Pedestrian-scale vertical lamps will be distributed along the walkways within the central plaza, and pedestrian corridors within the parking field and main drive aisles. They will not only visually enhance the pedestrian experience, but they will also increase user safety.
- Building Illumination - Wall sconces will be attached onto the vertical piers that separate retail units and also at building corners. Sconces will have a complimentary style and color to the vertical lamps.

Internal Roads

All internal roads will be tree-lined streets defined by raised curbs, landscaping and pedestrian walkways.

All internal roads will be constructed from asphalt and will have colored and textured paving at significant locations to demarcate pedestrian routes, aid in traffic calming and to physically define the six entry points to the central plaza.

Street Furniture

Along with the style of the lighting standards, the design, character, color and materials of street furniture will have a coordinated, complete design expression that extends throughout the site.

Street furniture at the St. Louis Premium Outlets will include:

- various styles of lighting (see lighting section)
- benches
- waste receptacles
- bollards
- table and chair combos
- stand-alone chairs
- bicycle racks

Landscape Guidelines

The landscape details for the St. Louis Premium Outlets are integral components of the character and quality of the design. Not only will they add to the visual appeal of the retail centre, but they will also help in spatial definition, way-finding and effective site circulation.

All landscape details will be complementary with the architectural design of the buildings and the street furniture. Opportunities to provide shaded walkways and seating areas have been optimized throughout the site.

Guiding principles:

Site entries, walkways and parking fields should be well-illuminated

Landscaping should not create any isolated areas, and allow clear views throughout the site