



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: Lighting Plan

Meeting Date: January 9, 2012

From: Kristian Corbin, Project Planner

- Location:South of Interstate 64 U.S. Highway 40/61 west of the intersection<br/>of Boone's Crossing and Chesterfield Airport Road.
- Description: Chesterfield Commons Six, Lot 5A (hhgregg) Lighting Plan: A Lighting Plan for a 2.43 acre tract of land zoned "C8" Planned Commercial District located south of Interstate 64 U.S. Highway 40/61 west of the intersection of Boone's Crossing and Chesterfield Airport Road.

### PROPOSAL SUMMARY

Civil Engineering Design Consultants, on behalf of hhgregg and THF Realty, has submitted a Lighting Plan for Planning Commission review. The request is to illuminate the 2.43 acre tract of land for a proposed retail store located on Lot 5A of the Chesterfield Commons Six Development.

## LAND USE AND ZONING HISTORY OF THE SUBJECT SITE

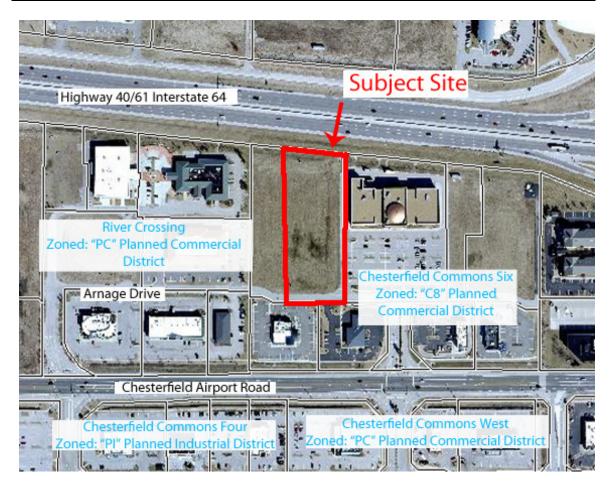
The subject site was zoned "C8" Planned Commercial District by St. Louis County Ordinance 13,933 in 1988. In May of 2004, City of Chesterfield Ordinance 2096 repealed St. Louis County Ordinance 13,933 to permit drive-through restaurant and to increase the maximum height of the light standards. No other amendments to the governing ordinance occurred.

The Site Development Concept Plan was approved in November of 2002 for the original layout of the development. There was an amendment to the Site Development Concept Plan in April of 2005 to show lot 7 being split into Lots 7A and 7B.

On December 5, 2011, a Lot Split Plat was approved dividing Lot 5 into Lots 5A and 5B. Following the approval of the Lot Split, the Site Development Section Plan, Landscape Plan and Architectural Elevations were presented before and approved by the Planning Commission on December 12, 2011.

Direction	Land Use	Zoning		
North	Undeveloped	"PI" Planned Industrial District		
South	Restaurant	"C8" Planned Commercial District		
East	Retail	"C8" Planned Commercial District		
West	Retail	"PC" Planned Commercial District		

#### Land Use and Zoning of Surrounding Properties



### STAFF ANALYSIS

#### Zoning

The subject site is currently zoned "C8" Planned Commercial District under the terms and conditions of City of Chesterfield Ordinance Number 2096. The submittal was reviewed against the requirements of Ordinance 2096 and all applicable Zoning

Ordinance requirements. The site adheres to the applicable Zoning Ordinance requirements and the site specific governing ordinance.

### Lighting

The Lighting Plan has been submitted showing pole mounted parking lot fixtures, and building mounted utilitarian and decorative fixtures. All fixture designs adhere to the City of Chesterfield Lighting Ordinance. The proposed mounting height of the parking lot fixtures is thirty-three (33) feet. Though the Lighting Ordinance sets the maximum mounting height of parking lot light fixtures at twenty (20) feet, the governing ordinance of the site permits mounting heights of parking lot fixtures up to thirty (33) feet in height.

### DEPARTMENT INPUT

Staff has reviewed the Lighting Plan and has found the application to be in conformance with the site specific ordinance and all other applicable Zoning Ordinance requirements. Staff recommends approval of the proposal as presented.

#### <u>MOTION</u>

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

- 1) "I move to approve (or deny) the Lighting Plan for Chesterfield Commons Six, Lot 5A.
- "I move to approve the Lighting Plan for Chesterfield Commons Six, Lot 5A with the following conditions..." (Conditions may be added, eliminated, altered or modified)
- Cc: Michael G. Herring, City Administrator Rob Heggie, City Attorney Michael O. Geisel, Director of Planning, Public Works, and Parks Aimee Nassif, Planning and Development Services Director

Attachments: Lighting Plan Lighting Cut Sheets

STATISTICS				
Description	Symbol	Avg	Max	Min
Calc Zone #3	+	0.9 fc	6.9 fc	0.0 fc

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
	O A 4	KVF 1000M SYMFL	SQUARE AREA LIGHT, SYMMETRIC DISTRIBUTION, FLAT LENS.	ONE 1000-WATT CLEAR BT-37 METAL HALIDE, VERTICAL BASE-UP POSITION.	LTL11378.IES	110000	0.75	1080	
	В	6	WST 175M FT	ARCHITECTURAL SCONCE WITH FORWARD THROW DISTRIBUTION WITH CLEAR, FLAT GLASS LENS. CLEAR LAMP.	ONE 175-WATT CLEAR ED-17 METAL HALIDE, HORIZONTAL POSITION.	LTL11069.IES	12800	0.75	213
	С	12	Q17088	CUSTOM WALL SCONCE ALUMINUM 70W FROSTED GLASS	ONE 70-WATT WALL MOUNTED F31 SILVER METALLIC		*	-	70

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# NOTES

# 1. Mounting height of 33' (30'pole)

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# LITHONIA LIGHTING®

## **FEATURES & SPECIFICATIONS**

INTENDED USE — Use for parking lots, streets and surrounding areas.

CONSTRUCTION — Heavy gauge die-formed aluminum housing is fabricated using robotic continuous seam-weld process for weather-tight integrity. Integral structural support plate for mounting arm and electrical components ensures rigidity and strength. Hinged aluminum door frame incorporates stainless steel hardware. Continuous silicone gasketing surrounds lens for weather-tight seal. Optional tool-less hardware is available to maximize installation and maintenance ease.

Lens: Thermal shock resistant tempered glass lens. Choice of contoured drop lens or flat lens is available in standard product. Standard finish is dark bronze corrosion resistant electrostatically applied powder paint. Optional linear embossed accent reveals are available.

OPTICS — Most flat lens configurations meet full-cutoff criteria. See www.lithonia.com for details. Vertical-lamp reflectors are 1-piece spun and formed anodized aluminum. Specialized distributions available for either drop lens or flat lens. Reflectors are independently designed to optimize light output for the lens type. Horizontal-lamp reflectors also available. ELECTRICAL — All electrical components are mounted to a heavy-gauge plate to maximize heat dissipation and ensure structural integrity for optimal component life. Ballast: Constant wattage autotransformer. Metal Halide: Super CWA (pulse start ballast), 88% efficient and EISA legislation compliant, is required for 175-400W (SCWA option) for US shipments only. CSA, NOM or INTL required for probe start shipments outside of the US. Pulse-start ballast (SCWA) required for 200W, 320W, 350W, or 450W. Ballast is 100% factory-tested.

Socket: Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. Vertically-oriented for types SYM, ASY, and VFA distributions. Horizontal position-oriented for types R2, R3 and R4. UL listed 1500W-600V, 4kV pulse rated. Reflectors are rotatable and interchangeable.

INSTALLATION — Extruded aluminum arm with integral splice compartment. Standard arm is 9" in length. Aluminum fitter for 4" to 6" OD poles.

LISTINGS — UL Listed to US and Canadian safety standards (see Options). NOM Certified (see options). UL listed for 25°C ambient and wet locations. Optical chamber IP65 rated.

Note: Specifications subject to change without notice.

#### KFL2 1000M SYMFL Number Notes

Туре

Catalog

**Square Area Lighting** 

KVF2



METAL HALIDE: 175-1000W HIGH PRESSURE SODIUM: 250-1000W 20' to 40' Mounting

Square: 21-1/2 (54.6)

Flat lens height: 14 (35.5) Drop lens height: 17 (43.2) Post top Arm mount EPA: 2.8 ft2 (0.25 m2) EPA: 2.8 ft<sup>2</sup> (0.25 m<sup>2</sup>), incl. arm Weight: +2 lbs to \* \*Weight: 53 lbs (24 kg) Overall Height: 22-3/4 (57.8)

Specifications

\* Weight as configured in example below.

FH DH L Square

Mounting Option	<b>Drilling Template</b>
SPxx, RPxx,	5
WBxx	6
WWxx	7

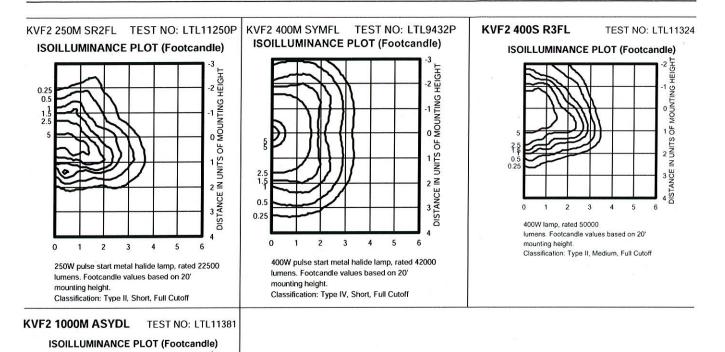
Example: KVF2 400M SYMDL TB SCWA SP09 LPI

#### ORDERINGINFORMATION For shortest lead times, configure products using **bolded options**.

KVF2	1000M		SYMF	L									
Series	Wattage		Distributio	on .			Voltage	Ballast		Mounting			
KVF2	Metal       halide       175M1       200M2       250M3       320M2       350M12       400M3       450M12       1000M4	High pressure sodium <sup>5</sup> 2505 4005 7505 10005 <sup>6</sup>	ASY VFA Horizontal R2	Symmetric square Asymmetric Vertical forv throw auton tive	horizo SR2FL SR3FL vard	throw, sharp cutoff	120 208 <sup>9</sup> 240 <sup>9</sup> 277 <b>347</b> 480 <sup>9</sup> TB <sup>10</sup> 23050HZ <sup>11</sup>	SCWA Note: For territories	Magnetic ballast Constant wattage isolated Super CWA ballast shipments to U.S. 5CWA must be to comply with EISA.	RP WB WW PT	Square pole Round pole Wall bracket Wood pole or wall bracket Post top; opentop pole	Size 06 09 12 4 4.5 5 6	6" arm 9" arm 12" arm 4" 0D 4.5" 0D 5" 0D 6" 0D
Shipped SF DF KW1 KW4 PER QRS QRSTD EA	d installed in Single fus Double fu KiloWatch KiloWatch NEMA twi (photocon	e 120, 277, 34 se 208, 240, 4 ® 120V contro ® 277V contro st-lock recept trol not inclu trike system <sup>11</sup> delay <sup>11, 15</sup>	80V <sup>13</sup> bl relay <sup>13, 14</sup> bl relay <sup>13, 14</sup> acle only ded)	INTL	fixture finish) <sup>16</sup> . External houses black to maxim Listed and labe Canadian Stand NOM certified <sup>11</sup> Available for 17 outside the U.S.	ide shield black (painted ize light control) <sup>16, 18</sup> ed to comply with ards	VG V PE1 N PE3 N PE4 N PE7 N	IEMA twist-l IEMA twist-l		Finish" (blank DBL DGC DMB DNA DWH CR		L/LP N Cornsue S Garage	Lamp included Less lamp GATTIME RENDE GENTE RENDE RENDE GENTE STATION CONTRACTOR

							-			
	A			nting Slipfit alog number.	ter <sup>21</sup>		N 1 2 3	otes These wattages do not comply with California Title 20 regulations. Must be ordered with SCWA. These wattages require the REGC1 option to be chosen for shipments into California for Title 20 compliance. 250M REGC1 in not available in 347 or 480V. Use reduced tacketed Jamp.	13 14	12" arm required when two or more luminaires are oriented on a 90° drilling pattern. Not available with TB. Must specify voltage. Available in vertical lamp orientation only for 200-400M SCWA. Any orientation on 2500 or 4005 only. Maximum allowable wattage lamp included.
Tenon O.D.	One	Two@180°	Two@90°	Three@120°	Three@90°	Four@90°	5	Not available with SCWA. Available in ASYDL, SYMDL or VFADL. Standard ED2S lamp.	16	May be ordered as an accessory. Specify finish when ordered as an accessory.
2-3/8 (6.0)	T20-190	T20-280	T20-290	T20-320	T20-390	T20-490	7	For drop lens, specify DL For flat lens, specify FL. Example: SYMDL or R2FL.		Prefix with KVF2 when ordering as an accessory.
2-7/8 (7.3)	T25-190	T25-280	T25-290	T25-320	T25-390	T25-490	8 9	Not available with 1000W or post top. Must specify CWI for use in Canada.	19	Use KVF2EHSFL for high-performance reflectors. See www.lithonia.com/archcolors for additional color options.
4 (10.2)	T35-190	T35-280	T35-290	T35-320	T35-390	T35-490		Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada).		Must be specified. Arm mount only

Dimensions in inches (centimeters)unless otherwise specified.



DISTANCE IN UNITS OF MOUNTING 2. 1.5 0. 5 3 4 6 0 1 2 1000W lamp, rated 110000

HEIGHI

lumens. Footcandle values based on 20' mounting height. Classification: Type IV, Short, Cutoff

#### **Mounting Height Correction Factor**

(Multiply the fc level by the correction factor) 25 ft.= 0.64 30 ft = 0.4540 ft= 0.25

> **Existing Mounting Height** New Mounting Height

#### = Correction factor

#### Notes

- Photometric data for other distributions can be accessed from the Lithonia Lighting Web site (www.lithonia.com)
- 2 For electrical characteristics, consult outdoor technical data specification sheets on www.lithonia.com.
- Tested to current IES and NEMA standards under stabilized laboratory conditions. Various operating 3 factors can cause differences between laboratory and actual field measurements. Dimensions and specifications are based on the most current available data and are subject to change.



KVF2-M-S

# LITHONIA LIGHTING®

### 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.

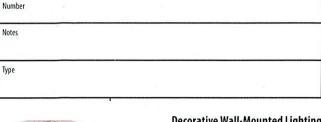
Socket: Porcelain, medium-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 660W, 600V 4KV pulse rated.

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.



**Decorative Wall-Mounted Lighting** 

WST

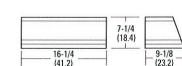


Catalog

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

Example: WST 100M FT TB LPI

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).

WST MD Ballast Distribution Mounting Options Series Wattage/source Voltage (blank) Surface mount Shipped installed in fixture FT 120 (blank) Magnetic WST High **Ceramic** Forward Metal pressure halide metal throw ballast Single fuse (120, 277, 347V)8 2083 SF Shipped separately<sup>7</sup> sodium halide 50M MD Medium CWI Constant DF Double fuse (208, 240V)8 240<sup>3</sup> BBW Surface mount 35S1 50MHC throw (coated wattage isolated 70M back box 277 DC12 Emergency circuit 12-volt (35W lamp included)9 50S lamp std.) 70MHC 100M UT5 Uptilt 5 degrees Emergency circuit 12-volt (two 35W lamps included)9 347 2DC12 Pulse Start 70S 100MHC WT Wide throw 150M TB<sup>4</sup> Emergency circuit 12-volt (20W lamp included)9 DC2012 1005 150MHC Super CSA 175M<sup>2</sup> SCWA 23050HZ5 2DC2012 Emergency circuit 12-volt (two 20W lamps 150S pulse start included)<sup>s</sup> ballast<sup>6</sup>

							1		19
Options	; (continued)					Finish <sup>16</sup>		Lamp	8
	Emergency LED secondary source battery pack with time delay (-4°F min. operating temperature) <sup>10</sup> Emergency LED secondary source (two modules) battery pack with time delay (-4°F min. operating temperature) <sup>10</sup> Diffusing lens Emergency circuit <sup>11, 12</sup> Internal backlight shield <sup>13</sup> Photoelectric cell-button type (n/a TB) <sup>14</sup>	QRS WLU CSA NOM INTL	Quartz restrike system <sup>11, 15</sup> Wet location door for up orientation CSA certified NOM certified <sup>5</sup> International shipment for 175M	<u>Ship</u> r WG VG	<u>bed separately</u> <sup>14</sup> Wire guard Vandal guard	(blank) DSST DNAT DWHG DBLB CR CR	Dark bronze, textured Sandstone, textured Natural aluminum, textured White, textured Black, textured Corrosion-resistance Non-stick protective coating <sup>17</sup>	LPI L/LP	Lamp included Less lamp

#### 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

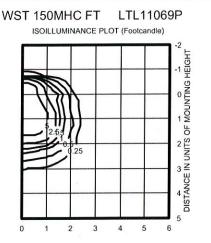
- Canada; ships as 120V/347V).
- Consult factory for available wattages.

Available with 150M or 150MHC only.

- May be ordered as an accessory with prefix "WS". Must specify finish.
- Not available with DC options. 8
- Not available with ELED, SF, DF, EC or ORS.
- Maximum wattage 100M, 70S. Must specify 120V or 277V. Not available with QRS, EC or DC. 10
- Maximum allowable wattage lamp included 11
- 12 Not available with ELED, QRS or DCs.

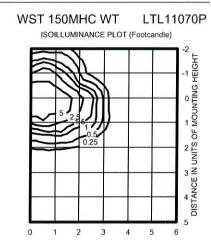
- 13 Not available with medium throw (MD, MDU, MDUS) distributions.
- 14 Must be ordered with fixture; cannot be field installed. 15 Not available with ELED, EC or DCs.
- 16 See www.lithonia.com/archcolors for additional color options.
- 17 Black finish only.
- 18 Must be specified. L/LP not available with MHC.





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%



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	
Metal Halide		10′	12′	14′	16'
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	4000	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 Compatability							
Lamp options # of lamps/wattage	DC12	2DC12	DC2012	2DC2012	EC	ELED	2ELED
355							
50S							
705							
1005							
1505							
50M							
70M							
100M				-			
150M							
175M							



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